

1) Family number: 12061000 (US5435465A)

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Title: Hygiene device

Abstract: An apparatus for wetting toilet paper prior to the use of the toilet paper. The apparatus may be mounted on a wall or set on a flat surface, and includes a reservoir for storing a fluid. A clamp is provided for holding the reservoir by friction. The reservoir has a screw-on lid and a check valve controlling flow of fluid, enabling the reservoir to be removed without allowing a significant quantity of liquid contents to escape. The check valve is opened by a projecting conduit member when the liquid reservoir is secured by the clamp in its operative position. An internal valve arrangement includes a spring biased piston pressurizing the liquid, and resultant pressure operates a valve enabling dispensing of the liquid. An operating lever acting on the piston is urged by the spring into a "ready" position after each stroke. As the liquid is dispensed onto the toilet paper, any excess liquid is caught by a liquid splash pan located under the user's hand and contained within a removable tray. A hinged cover is provided with a viewing window providing the user with a way to check the level of liquid in the reservoir. In commercial applications, the hygiene device may be provided with a locking cover and a locking liquid splash pan to prevent unauthorized removal of the liquid reservoir and the tray. The lever is disposed to be located below or in front of the discharge path in the "ready" position, and is pushed to a location behind the discharge path during operation. This enables a user to both operate the device and to hold a toilet tissue while using but a single hand.

Classifications:

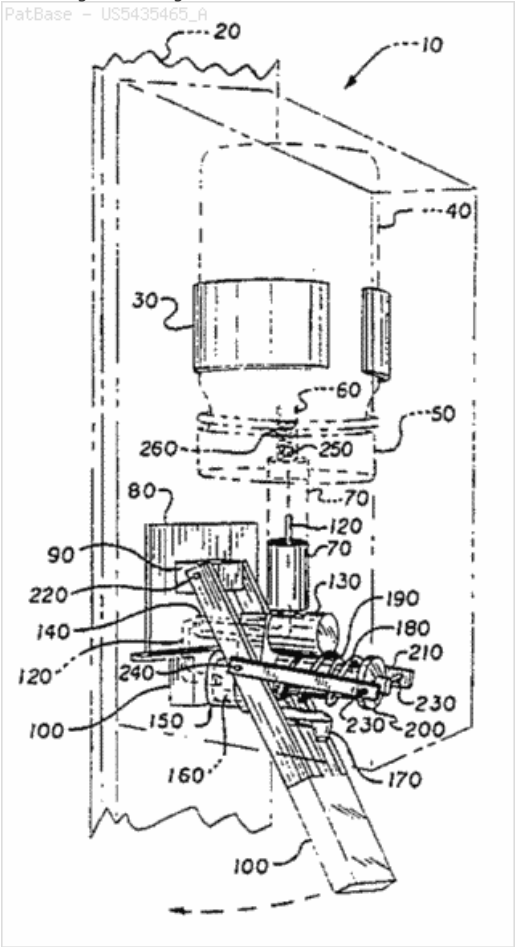
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International (IPC 1-7): B67D1/16 B67D5/06 B67D5/40

CPC: A47K5/1204 A47K10/32 A47K2010/328

European: A47K10/32 A47K5/12C1 K47K10/32W1A

US: 222/108 222/153.02 222/153.09 222/156 222/181.2 222/192 222/383.1



Family:

Publication number	Publication date	Application number	Application date
US5435465 A	19950725	US19930140488	19931025

Priority:

US19920875021 19920428 US19930024071 19930301 US19930140488 19931025

Probable Assignee: EL AMIN HASSAN A

Assignee(s): EL AMIN HASSAN A

Inventor(s): (std): EL AMIN HASSAN A

2) Family number: 51717005 (US2013081300A)

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Title: VACUUM CYCLING DRYING

Abstract: The invention generally relates to methods and systems of drying objects containing interior surfaces. In particular, the present invention provides a method which alternates vacuum and pressure with heated gases to enhance interior drying of parts. More particularly, the method cycles the chamber through a vacuum phase that rapidly removes

vapor from the object both convectively and through boiling followed by a pressure phase that delivers heat and fresh gases to difficult regions of the objects to be dried.

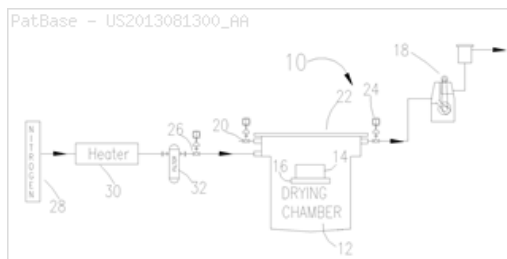
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CPC: F26B5/04 F26B21/10 F26B21/14 B65H1/08 A47K10/42

European: A47K10/42

US: 221/45 34/412



Family:

Publication number	Publication date	Application number	Application date
AU2012212042 AA	20120809	AU20120212042	20120203
CA2825993 AA	20130729	CA20122825993	20120203
EP2673225 A2	20131218	EP20120742597	20120203
US2013081300 AA	20130404	US20120624545	20120921
US2014021215 AA	20140123	US20120983482	20120203
WO12106610 A2	20120809	WO2012US23795	20120203
WO12106610 A3	20140417	WO2012US23795	20120203

Priority:

US20110439304P 20110203 US20110479298P 20110426 US20110541995P 20110930
US20110578874P 20111221 US20120983482 20120203 WO2012US23795 20120203
US20120624545 20120921

Probable Assignee: NAPABE LLC

Assignee(s): (std): GRAY DONALD J ; NAPABE LLC ; TRAN PAUL BUI VINH

Inventor(s): (std): TRAN PAUL BUI VINH ; GRAY DONALD J

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; NA; DOERRIES HANS ULRICH; BROWN MARSHALL J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 28691009 (US2002053577A)

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Title: LIQUID DISPENSER AND ASSEMBLY METHODS THEREFOR

Abstract: A liquid dispenser includes a container having an opening for receiving a liquid, and a dispenser subassembly having an outlet and a closing member cooperating with the outlet, the closing member being movable between a first closed position whereby the closing member engages the container opening and a second open position whereby the closing member is remote from the container opening. At least part of the dispensing subassembly is preformed on the container and the remaining part of the dispenser subassembly is connectable therewith.

Classifications:

International (IPC 8-9): B05B B05B11/00 B05B15/00 B29C49/06 B65D B65D23/00 B65D47/24 B65D47/34 B65D83/00 B65D83/14 F04B9/14 G01F G01F11/00 G01F11/28

G01F13/00 (Advanced/Invention);

B05B11/00 B29C49/06 B65D23/00 B65D47/34 F04B9/14

G01F13/00 (Advanced/Non-invention);

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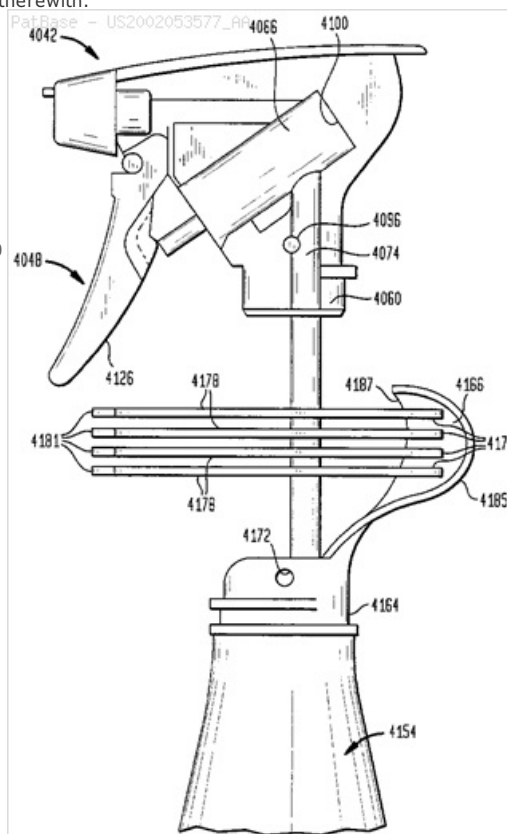
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US: 222/321.7 222/340 222/341 222/383.1 222/383.100P 29/453 29/778



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Probable Assignee: DISPENSING TECHNOLOGIES BV

Assignee(s): (std): AFA PLOYTEK B V ; AFA PLOYTEK BV ; AFA POLYTEK B V ; MAAS WILHELMUS JOHANNES ; HURKMANS PETRUS LAMBERTUS ; MAAS WILHELMUS J J ; HURKMANS PETRUS L W ; MAAS WILHELMUS JOHANNES JOSEPH ; HURKMANS PETRUS LAMBERTUS WILH ; AFA POLYTEK BV

Assignee(s): NIBC BANK NV ; DISPENSING TECHNOLOGIES BV ; AFA POLYTEK GRASBEEMD BV ; HURKMANS PETRUS LAMBERTUS WILHELMUS ; AFA POLYTEK B V HELMOND ; AFA POLYTEK A CORP OF NETHERLANDS BV

Inventor(s): (std): HURKMANS PETRUS LAMBERT WILHEL ; HURKMANS PETRUS LAMBERTUS WILHELMUS ; JOSEPH MAAS ; KHJURKMANS PETRUS LAMBERTUS VIL KHEL MUS ; PETRUS LAMBERTUS WILHELMUS HURKMANS ; PETRUS LAMPBERTUS WILHELMUS HURKMANS ; PETRUS LAMPBERTUS WILLIAMS HURKMANS ; WILHELMUS JOHANNES ; WILHELMUS JOHANNES JOSEPH MAAS ; WILHELMUS JOHANNES JOSEPH MASS ; WILLIMAS JOHNNES JOSEPH MAAS ; MAS VIL KHEL MUS JOKHANNES JOSEF ; MASS WILHELMUS JOHANNES JOSEPH ; MAAS WILHELMUS JOHANNES ; MAAS JOSEPH ; JOHANNES WILHELMUS ; HURKMANS PETRUS LAMPBERTUS WIL ; HURKMANS PETRUS LAMBERTUS ; HURKMANS PETRUS LAMBERTUS WILH ; MAAS WILLIMAS JOHNNES JOSEPH ; WILHELMUS HURKMANS PETRUS LAMBERTUS ; MAS VIL KHEL MUS JOKHANNES JOS ; MAAS JOHANNES ; KHJURKMANS PETRUS LAMBERTUS VI ; JOSEPH MAAS WILHELMUS JOHANNES ; HURKMANS LAMBERTUS ; MAAS ILHELMUS JOHANNES JOSEPH ; MAAS WILHELMUS JOHANNES JOSEPH

Inventor(s): KHJURKMANS PETRUS LAMBERTUS VIL'KHEL'MUS ; PETRUS LAMBERTUSWILHELMUS ; HURKMANS ; WILHELMUS JAHANNES ; MAS VIL'KHEL'MUS JOKHANNES JOSEF ; MAAS ; PETRUS LAMBERT WILHELMUS HURKMANS ; PETRUS LAMBERTUS WILHELMUS ; WILHELMUS JOHANNES JOSEPH ; MAAS WILHELMUS JOHANNES JOSEPH HURKMANS PETRUS LAMBERTUS WILHELMUS ; MAAS WILHELMUS JOHANNES JOSEPH HURKMANS PETRUS LAMBERTUSWILHELMUS ; JAHANNES WILHELMUS

Agent(s): FETHERSTONHAUGH AND CO; JOHANSSON; GERMAN CASTILLO GRAU

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

4) Family number: 42871009 (US2009028809A)

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Title: PERSONAL CARE ARTICLE FOR SEQUENTIALLY DISPENSING COMPOSITIONS WITH VARIABLE CONCENTRATIONS OF HYDROPHOBIC BENEFIT MATERIALS

Abstract: The present invention relates to a personal care article for providing at least two liquid personal care compositions. The personal care article comprises a single chamber package and a liquid personal care product. The package comprises a dispensing orifice, a first zone proximate, to the dispensing orifice and a second zone distal to the dispensing orifice. The liquid personal care product comprises a first personal care composition substantially disposed within the first zone and the second personal care composition substantially disposed within the second zone. The first personal care composition comprises a first concentration of hydrophobic benefit material. The second personal care composition comprises a second concentration of hydrophobic benefit material. The first concentration of hydrophobic benefit material is different from the second concentration of hydrophobic benefit material.

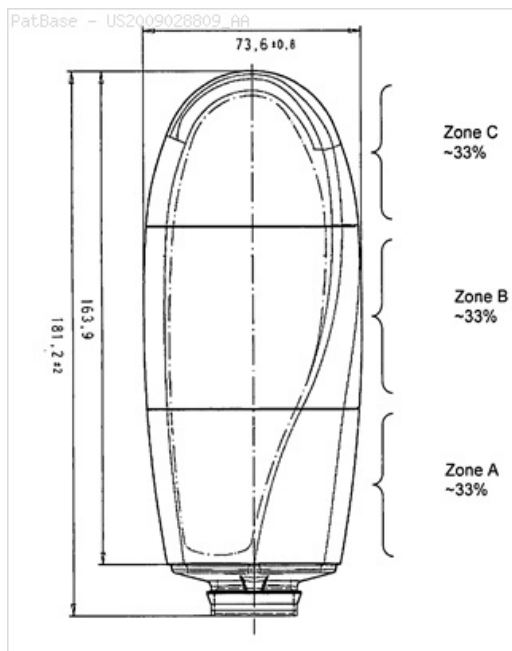
Classifications:

International (IPC 8-9): A45D34/00 A45D40/24 A61K31/00 A61K49/00 A61K8/00 A61K8/03 A61K8/18 A61K8/31 A61K8/92 A61K8/96 A61Q17/04 A61Q19/00 A61Q19/02 A61Q19/04 A61Q19/08 A61Q19/10 A61Q5/02 B65B3/32 B65B43/59 B65D25/00 B65D35/00 B65D77/08 B65D83/00 B65D85/00 C12Q1/02 C40B30/00 C40B30/04 G01N33/50 G01N33/62 G01N33/68 G01N33/92 G01R33/44 G06Q10/00 G06Q30/02 G06Q50/00 (Advanced/Invention); A61K8/00 A61K8/03 A61Q17/04 A61Q19/00 A61Q19/02 A61Q19/04 A61Q19/08 A61Q19/10 A61Q5/02 B65B3/00 B65B43/42 B65D25/00 B65D77/00 G01R33/44 (Core/Invention)

CPC: A45D34/04 A45D40/24 A61K2800/88 A61Q19/00 B65B3/326 B65B43/59 G01N24/085 G01R33/44 A45D34/00 A45D2200/058 A61K2800/436 B65D77/08 A61K8/31 A61K8/03 A61K2800/87 A61Q19/10 G01N33/5088 G01N33/6812 G01N33/6827 G01N33/6869 G01N33/6881 G01N33/92 G01N2333/4742 G01N2333/545 G01N2500/04 G06Q30/0201 A61K8/96 A61K49/0006 G01N33/62 G01N2800/20

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Publication number	Publication date	Application number	Application date
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WO11088338 A2	20110721	WO2011US21325	20110114
WO11088338 A3	20121122	WO2011US21325	20110114

Priority:

US20070881551	20070727	WO2008B53009	20080725	US20090361492	20090128
US20090361457	20090128	US20090478624	20090604	US20100295732P	20100117
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WO2010US22361	20100128	WO2010US22355	20100128	WO2010US22359	20100128
WO2010US22360	20100128	WO2010US22458	20100128	EP20100743267	20100625
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US20160254426	20160901	US20170726076	20171005		

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): ABSHER SARAH NOELLE ; BIEHLE SUSAN JEANE ; CETTI JONATHAN ROBERT ; DICKER JOHN ANDREW ; FARRIS RICHARD DUFFY ; GARZA CYNTHIA A ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE ; LEHNHOFF KAREN ; PUTMAN CHRISTOPHER DEAN ; SMITH EDWARD DEWEY III ; SMITH III EDWARD DEWEY ; MENON ELTON LUIS ; PAN YONG ; STELLA QING ; GARZA CYNTHIA ANN ; WILLIAMS TOMMY LEE JR ; WILLIAMS JR TOMMY LEE ; WEI KARL SHIQING ; WEHMEYER KENNETH ROBERT ; WIMALASENA ROHAN LALITH ; WILLIAMS JR LEE THOMAS

Assignee(s): PROCTER AND GAMBLE CO CINCINNATI ; THE PROCTER AND GAMBLE COMPANY

Inventor(s): (std): BIEHLE SUSAN JEANE ; DICKER JOHN ANDREW ; DUFFY FARRIS RICHARD ; JEANE BIEHLE SUSAN ; LALITH WIMALASENA ROHAN ; MENON ELTON LUIS ; ROBERT WEHMEYER KENNETH ; SHIQING WEI KARL ; STELLA QING ; GARZA CYNTHIA A ; GARZA CYNTHIA A ; WEHMEYER KENNETH ; WEHMEYER KENNETH ROBERT ; WILLIAMS TOMMY LEE JR ; WILLIAMS JR TOMMY LEE ; WEI KARL SHIQING ; SMITH III EDWARD DEWEY ; SMITH EDWARD DEWEY III ; ROBERT CETTI JONATHAN ; PUTMAN CHRISTOPHER DEAN ; PAN YONG ; LEHNHOFF KAREN ; LEE WILLIAMS TOMMY JR ; KAREN LEHNHOFF ; GARZA CYNTHIA ANN ; FARRIS RICHARD DUFFY ; DEWEY SMITH EDWARD III ; DEAN PUTMAN CHRISTOPHER ; CETTI JONATHAN ROBERT ; ABSHER SARAH NOELLE ; WILLIAMS JR LEE THOMAS ; WIMALASENA ROHAN ; WIMALASENA ROHAN LALITH ; WEI KARL

Inventor(s): WEI KARL SHIQING MASON ; BIEHLE SUSAN ; WIMALASENA ROHAN LALITH MASON ; WEHMEYER KENNETH ROBERT CINCINNATI ; GARZA CYNTHIA A CINCINNATI ; STELLA QING CINCINNATI ; PUTMAN CHRISTOPHER ; FARRIS RICHARD ; CETTI JONATHAN

Agent(s): GOWLING LAFLEUR HENDERSON LLP; WILDING RICHARD ALAN; KREMER VERONIQUE MARIE JOSEPHINE; SIMPSON KIRSTY MAIRI; SAUVAITRE THIBAUT BRUNO; THE PROCTER AND GAMBLE COMPANY, GLOBAL LEGAL DEPARTMENT - IP; PROCTER AND GAMBLE CO GLOBAL LEGAL DEPARTMENT IP; THE PROCTER AND GAMBLE COMPANY,GLOBAL LEGAL DEPARTMENT - IP; THE PROCTER AND GAMBLE COMPANY; HUGHETT EILEEN L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RU RS SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 56881010 (US2015351381A)

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Title: METHOD, SYSTEM AND APPARATUS FOR IMPROVED MICROMANIPULATION AND STORAGE

Abstract: The present application relates to the manipulation and handling of biological materials and, in one form, provides an apparatus for micromanipulation of biological material, including a channel for accommodating biological material and allowing for passage of liquid treatment solutions. The apparatus may include a two part construction wherein two portions of the apparatus are adapted to be heat sealed with a secondary material intermediate the two portions prior to a vitrification process step. A system for vitrification of a biological specimen is also provided including a software operable means for controlling the temperature environment, a software operable means for controlling fluid dispense volume and velocity and aspiration volume and velocity for the application of liquid treatment solutions to the biological specimen, and a software operable means for controlling protocol time.

Classifications:
International (IPC 8-9): A01N A01N1/02 C12M1/00 G05B15/00 G05B15/02 G05D7/00 G05D7/06 (Advanced/Invention); A01N (Subclass/Invention)
CPC: A01N1/0252 G05B15/02 G05D7/0617 A01N1/0242 A01N1/0257 A01N1/0268
US: 435/307.1 435/374 700/282



Family:

Publication number	Publication date	Application number	Application date
AU2014204411 AA	20150820	AU20140204411	20140107
AU2014204411 BB	20171102	AU20140204411	20140107
CA2897219 AA	20150706	CA20142897219	20140107
CN105101790 A	20151125	CN201480011612	20140107
CN105101790 B	20180921	CN201480011612	20140107
EP2941124 A1	20151111	EP20140735286	20140107
EP2941124 A4	20160810	EP20140735286	20140107
HK1217876 A1	20170127	HK20160105953	20160525
IL239808 A0	20150831	IL20140239808	20140107
IL239808 A1	20171231	IL20140239808	20140107
IN04752CN2015 A	20160701	IN2015CN04752	20150804
JP2016508714 T2	20160324	JP20150551089T	20140107
US2015351381 AA	20151210	US20140759419	20140107
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WO14106286 A1	20140710	WO2014AU00005	20140107

Priority:
AU20130900039 20130107 AU20140204411 20140107 WO2014AU00005 20140107

Probable Assignee: GENE A IP HOLDINGS PTY ACN 603 445 898 LTD

Assignee(s): (std): GENE A IP HOLDINGS PTY LTD ; GENE A LTD

Assignee(s): HOBBS BENJAMIN RAWLINGSON ; VOM EDUARDO ; HOBBS SIMON JAMES ; ROY TAMMIE KIM ; LEWIS CRAIG MATTHEWS ; GENE A IP HOLDINGS PTY ACN 603 445 898 LTD

Inventor(s): (std): VOM EDUARDO ; ROY TAMMIE KIM ; LEWIS CRAIG MATTHEWS ; HOBBS SIMON JAMES ; HOBBS BENJAMIN RAWLINGSON

Agent(s): MARKS AND CLERK AUSTRALIA; PINI IP; SIM AND MCBURNEY; AIRD AND MCBURNEY LP; RANKIN DOUGLAS; MARKS AND CLERK; WOLFF BREGMAN AND GOLLER; EVERSHEDES SUTHERLAND US LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 52585016 (US2015284235A)

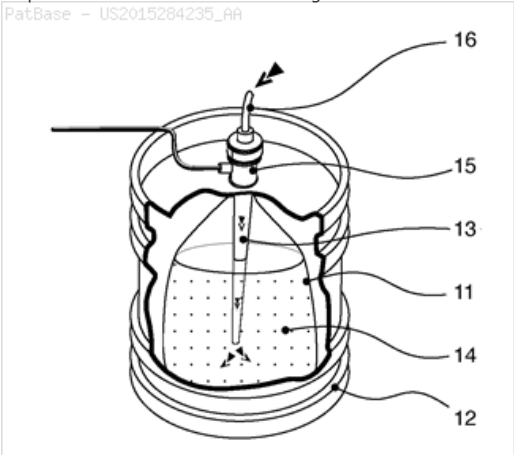
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Title: FLUID DISPENSOR WITH ISOLATION MEMBRANE

Abstract: A beverage dispenser is configured as an outer pressure vessel (12) with one or more internal liner bags (11) for respective content, the dispenser having one or more content pathways, a selector valve connected to the content pathways for selection and proportion mix, a pressurisation port in the container for charging the container externally of the liner bags and to promote discharge through the pathways, a bleed valve from a pressurised gas supply for selective gas injection at or close to a point of dispensing with a facility to pre-mix and feedback the pre-mix to a dedicated liner bag.

Classifications:

International (IPC 8-9): B65D25/14 B65D77/06 B65D83/62 B67D1/00 B67D1/04 B67D1/08 B67D7/02 (Advanced/Invention); B65D77/06 B65D83/00 B65D83/62 (Advanced/Non-invention)
CPC: B67D1/0004 B65D25/14 B65D77/06 B65D83/0055 B65D83/0072 B65D83/62 B67D2001/0824 B67D2001/0828 B05B9/047 B67D2001/0827 B67D1/0462 B67D7/0255
US: 220/495.06 222/1 383/93



Family:

Publication number	Publication date	Application number	Application date
AU2018217201 AA	20190228	AU20180217201	20180813
EP2906498 A2	20150819	EP20130785580	20130930
EP3441356 A1	20190213	EP20180188667	20180813
GB201218217 A0	20121121	GB20120018217	20121010
GB201317314 A0	20131113	GB20130017314	20130930
GB201719690 A0	20180110	GB20170019690	20171127
GB2506997 A1	20140416	GB20130017314	20130930
GB2506997 B2	20181212	GB20130017314	20130930
GB2565382 A1	20190213	GB20170019690	20171127
US2015284235 AA	20151008	US20130435045	20130930
US2018029864 AA	20180201	US20170675687	20170811
US9731954 BB	20170815	US20130435045	20130930
WO14057243 A2	20140417	WO2013GB52547	20130930
WO14057243 A3	20140717	WO2013GB52547	20130930

Priority:

GB20120018217 20121010 US20130435045 20130930 WO2013GB52547 20130930
US20150435045 20150410 US20170675687 20170811 GB20170019690 20171127
GB20170019690 20180315

Probable Assignee: BLACKBURN RAYMOND W

Assignee(s): (std): BLACKBURN RAYMOND ; BLACKBURN RAYMOND W ; BLACKBURN RAYMOND WILSON ; RAYMOND WILSON BLACKBURN

Inventor(s): (std): BLACKBURN RAYMOND WILSON ; RAYMOND WILSON BLACKBURN

Agent(s): BALDWIN INTELLECTUAL PROPERTY; ELSWORTH DOMINIC STEPHEN; KINNEY AND LANGE PA; TILLBROOK CHRISTOPHER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 59139029 (US2015125099A)

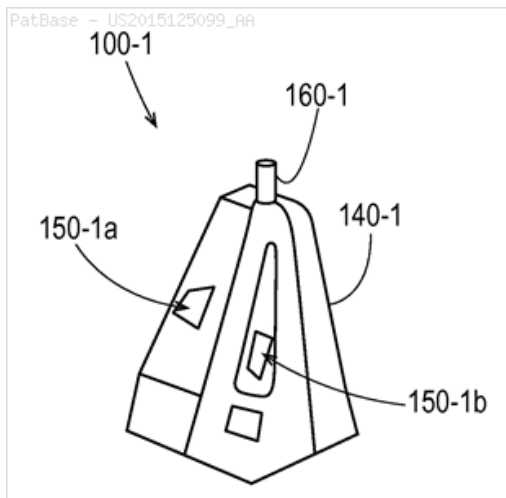
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Title: FLEXIBLE CONTAINERS AND METHODS OF FORMING THE SAME

Abstract: A method of forming a flexible container can include folding a web or sheet to define one or more gussets in one or more regions of the flexible container. The gusset can be a continuous gusset or can be an interrupted gusset, having a seal disposed in the gusset.

Classifications:

International (IPC 8-9): B31B1/26 B31B1/90 B31B50/26 B31B50/81 B65B1/02 B65B3/02 B65B31/04 B65B43/30 B65B5/02 B65D30/10 B65D30/16 B65D30/20 B65D33/00 B65D33/02 B65D75/00 B65D75/20 B65D75/52 B65D75/54 B65D75/56 B65D75/58 B65D81/03 (Advanced/Invention); B31B155/00 B31B160/20 B31B160/30 B31B70/00 B31B70/26 (Advanced/Non-invention)
CPC: B65D31/10 B65D75/00 B65D31/16 B65D33/004 B65D33/02 B65D75/008 B65D75/20 B65D75/525 B65D75/54 B65D75/566 B65D75/5866 B65D75/5877 B65D75/5883 B65D81/03 B65D2205/02 B31B50/26 B31B50/81 B31B70/008 B31B70/266 B31B2155/00 B31B2155/0014 B31B2160/20 B31B2160/30 B65B3/02 B65B43/30
US: 383/120 493/212 493/243



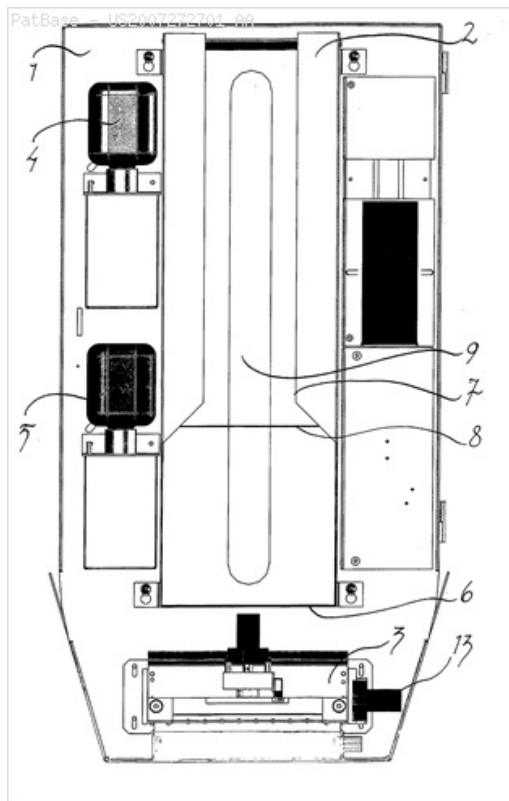
Family:

Publication number	Publication date	Application number	Application date
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CA2927209 C	20180717	CA20142927209	20141106
CN105705431 A	20160622	CN201480060719	20141106
CN105705431 B	20180223	CN201480060719	20141106
EP3066025 A1	20160914	EP20140805419	20141106
ID201705501 A	20170526	ID2016P0002657	20141106
IN201617012843 A	20160831	IN201617012843	20160412
JP2016535709 A2	20161117	JP20160552479	20141106
JP2016535709 T2	20161117	JP20160552479T	20141106
JP6378350 B2	20180822	JP20160552479T	20141106
MX2016005517 A1	20160722	MX20160005517	20141106
PH2016501062 A	20160711	PH20160501062	20160603
RU2016121695 A	20171211	RU20160121695	20141106
US2015125099 AA	20150507	US20140534210	20141106
US10131468 BB	20181120	US20140534210	20141106
WO15069859 A1	20150514	WO2014US64285	20141106

Priority:

Probable Assignee: PROCTER AND GAMBLE CO**Assignee(s):** (std): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE**Assignee(s):** LESTER JOSEPH CRAIG ; ISHIHARA TADAYOSHI ; RAPACH ANDREW PAUL ; MCGUIRE KENNETH STEPHEN ; GUNNERSON KORY ADAM ; KALEIDOSCOPE INC ; YOU JUN ; STANLEY SCOTT KENDYL ; ARENT LEE MATHEW ; BERG CHARLES JOHN JR ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB**Inventor(s):** (std): ADAM GUNNERSON KORY ; ARENT LEE MATHEW ; BERG CHARLES JOHN ; BERG CHARLES JOHN JR ; BERG JR CHARLES JOHN ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; CRAIG LESTER JOSEPH ; GUNNERSON KORY ADAM ; ISHIHARA TADAYOSHI ; ISHIHARA TODAYOSHI ; JACOB CLARE BENJAMIN ; JOHN BERG CHARLES JR ; KENDYL STANLEY SCOTT ; MATHEW ARENT LEE ; MCGUIRE KENNETH STEPHEN ; PAUL RAPACH ANDREW ; RAPACH ANDREW PAUL ; RICHARD BOURGEOIS MARC ; STANLEY SCOTT KENDYL ; STEPHEN MCGUIRE KENNETH ; TADAYOSHI ISHIHARA ; LESTER JOSEPH CRAIG ; YOU JUN ; YOUJUN**Inventor(s):** MARC RICHARD BOURGEOIS ; TODAYOSHI ISHIHARA ; SCOTT KENDYL STANLEY ; KENNETH STEPHEN MCGUIRE ; KORY ADAM GUNNERSON ; LEE MATHEW ARENT ; JOSEPH CRAIG LESTER ; JUN YOU ; CHARLES JOHN BERG JR ; BERG JR ; BENJAMIN JACOB CLARE ; ANDREW PAUL RAPACH ; ANDREW PAULRAPACH**Agent(s):** KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; MAULITTA PRAMULASARI; TANI AND ABE PC; WEIRICH DAVID M; GUFFEY TIMOTHY B**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**8) Family number: 32253033 (US2007272701A)**

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Title: PAPER DISPENSER**Abstract:** Device for the dispensing of paper with varying use, for instance as toilet paper, wet napkins, towel paper etc. that includes an electrical perforating device and means for individual spraying of water or water with an additive of soap etc. on the paper that is to be dispensed, controlled by the need.**Classifications:****International (ipc 8-9):** A47K10/32 A47K10/34 A47K10/36 B65D83/00 (Advanced/Invention); A47K10/24 B65D83/00 (Core/Invention); A47K (Subclass/Invention)**International (ipc 1-7):** A47K10/32 A47K10/36**CPC:** A47K2010/328 A47K10/32 A47K10/28 A47K10/36**European:** A47K10/28 A47K10/32 A47K10/36 K47K10/32W1A**US:** 221/135**Family:**

Publication number	Publication date	Application number	Application date
AT494825 E	20110115	AT20050722201T	20050310
CN1929769 A	20070314	CN200580008036	20050310
CN1929769 B	20110406	CN200580008036	20050310
DE602005025853 D1	20110224	DE200560025853T	20050310
EP1727451 A1	20061206	EP20050722201	20050310
EP1727451 B1	20110112	EP20050722201	20050310
JP2007528770 T2	20071018	JP20070502766T	20050310
SE200400629 A	20050913	SE20040000629	20040312
SE200400629 A0	20040312	SE20040000629	20040312
SE200400629 L	20050913	SE20040000629	20040312
SE527194 C2	20060117	SE20040000629	20040312
US2007272701 AA	20071129	US20050598783	20050310
WO05087068 A1	20050922	WO2005SE00354	20050310

Priority:

WO2004SE00354 20040310 WO2005SE00354 20040310 SE20040000629 20040312
WO2005SE00354 20050310

Probable Assignee: OPTI SVERIGE AB

Assignee(s): (std): CARLSEN LENNART ; CARLSSON KURT ; CARLSSON RICKARD ; HAAKAN MANN ; MANN HAAKAN ; OPTI SVERIGE AB ; MANN HAKAN

Assignee(s): RICKARD CARLSSON ; LENNART CARLSEN ; KURT CARLSSON

Inventor(s): (std): LENNART CARLSSON RICKARD CARLS ; MANN HAAKAN ; RICKARD CARLSSON ; LENNART CARLSEN ; KURT CARLSSON ; HAAKAN MANN ; MANN HAKAN ; CARLSEN LENNART ; CARLSSON KURT ; CARLSSON RICKARD

Inventor(s): CARLSSON RICKARD CARLSSON KURT MANN HAAKAN ; CARLSSON RICKARD CARLSSON KURT MANN HAAKAN CARLSEN ; CARLSSON RICKARD CARLSSON KURT MANN HAAKAN CARLSEN LENNART

Agent(s): BERGLUND ERIK WILHELM; HAYES SOLOWAY PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

9) Family number: 43120035 (US2010230442A)

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Title: METERING DEVICE

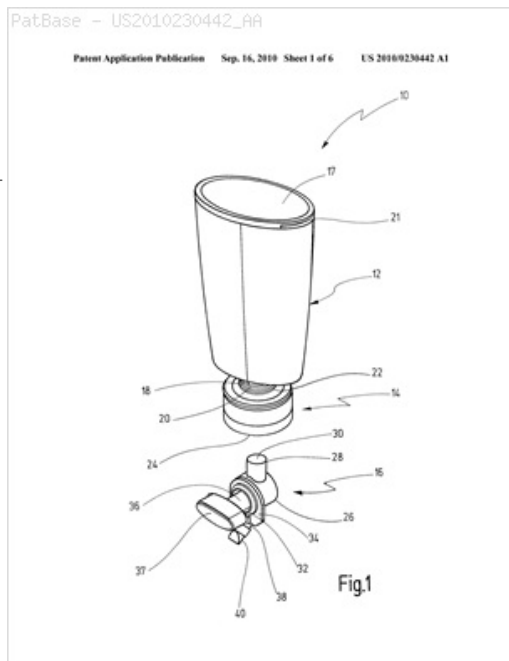
Abstract: A dosing apparatus for fluid, in particular pasty, substances such as toothpaste, liquid soap, mustard, etc., comprises a pump which has a filling nozzle which forms a suction opening of the pump in order to pump the pasty substance out of a container. An adapter has an inlet opening and an outlet opening for connecting a neck or an opening of the container to the filling nozzle of the pump. The outlet opening can be connected to the suction opening. The connection between the suction opening of the pump and the outlet opening of the adapter is designed to be releasable. The filling nozzle is formed coaxially to the adapter.

Classifications:

International (IPC 8-9): A47G19/18 A47K5/12 B05B11/00 B65D37/00 B65D47/20 B65D47/34 B67D7/06 B67D7/58 F04B9/14 G01F11/08 (Advanced/Invention); A47G19/00 A47K5/00 B05B11/00 B65D37/00 B65D47/04 (Core/Invention)

CPC: B05B11/0072 A47G19/183 A47K5/1208 B05B11/0054 B05B11/0056 B05B11/0059 B05B11/007 B05B11/3032 B05B11/3047 **European:** A47G19/18B A47K5/12C2 B05B11/00B9R B05B11/00B9T B05B11/30E6 B05B11/30H1D2 L05B11/00B5E L05B11/00B5F L05B11/00B6

US: 222/181.3 222/207 222/214 222/325 222/383.1



Family:

Publication number	Publication date	Application number	Application date
DE102007049367 A1	20090409	DE200710049367	20071008
DE502008010579 D1	20131017	DE200850010579T	20081008
EP2197591 A2	20100623	EP20080838462	20081008
EP2197591 B1	20130828	EP20080838462	20081008
US2010230442 AA	20100916	US20100756189	20100408
US8360285 BB	20130129	US20100756189	20100408
WO09046971 A2	20090416	WO2008EP08496	20081008
WO09046971 A3	20090618	WO2008EP08496	20081008

Priority:

DE200710049367 20071008 EP20080838462 20081008 WO2008EP08496 20081008

Probable Assignee: GRBESIC THOMAS

Assignee(s): (std): GRBESIC THOMAS

Inventor(s): (std): GRBESIC THOMAS

Agent(s): WITTE WELLER AND PARTNER PATENTANWALTE MBB; WITTE WELLER AND PARTNER; TIMOTHY M BARLOW; TIMOTHY M; STEIL CHRISTIAN I ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MOBILE DISHWASHER

Abstract: A mobile dishwasher comprises a washer having a nozzle for discharging a cleaning fluid, and a first cart being configured to be detachably coupled to the washer. The first cart comprises two or more side-openings for receiving soiled utensils before being coupled to the washer.

Classifications:

International (IPC 8-9): A47B31/00 A47L A47L15/00 A47L15/14 A47L15/24 A47L15/28 A47L15/42 A47L15/44 A47L15/46 A47L15/50 (Advanced/Invention)

CPC: A47L15/50 A47L15/0021 A47L15/0036 A47L15/0063 A47L15/4219 A47L15/4234 A47L15/4236 A47L15/428 A47L15/44 A47L2501/34 A47L15/4268 A47L15/28 A47L15/4202 A47L2401/11 A47L2401/34 A47L15/0076 A47L15/0084 A47L15/42



Family:

Publication number	Publication date	Application number	Application date
AU2015331005 AA	20170518	AU20150331005	20151008
AU2015331005 AA	20160421	AU20150331005	20151008
CN107046799 A	20170815	CN201580017263	20151008
EP3206553 A1	20170823	EP20150851459	20151008
EP3206553 A4	20180725	EP20150851459	20151008
HK1242153 A1	20180622	HK20180101760	20180205
IN201717015341 A	20170915	IN201717015341	20170501
JP2017530808 T2	20171019	JP20170519274T	20151008
KR20170085506 A	20170724	KR20177013009	20151008
RU2017116630 A	20181115	RU20170116630	20151008
RU2017116630 A3	20181228	RU20170116630	20150008
RU2017116630 A3	20181228	RU20170116630	20151008
SG10201406555X A1	20160530	SG20141006555	20141013
SG11201607221Q A1	20161028	SG20161107221	20151008
TW201613523 A	20160416	TW20150133597	20151013
TWI544890 B	20160811	TW20150133597	20151013
US2017231464 AA	20170817	US20150518757	20151008
WO16060614 A1	20160421	WO2015SG50379	20151008

Priority:

SG20141006555 20141013 RU20170116630 20150008 WO2015SG50379 20151008
SG20161107221 20151008

Probable Assignee: K ONE IND PTE LTD

Assignee(s): (std): K ONE IND PTE LTD

Assignee(s): KEJ UAN INDASTRIZ PTE LTD

Inventor(s): (std): KONG MUN CHEW ; CHEONG CHZE SEONG

Inventor(s): KUN MUN CHYU ; CHON CHZE SON

Agent(s): PIPERS; GROTH WIELAND; OLDHAM LI AND NIE SOLICITORS; MIKHAIYUK SOROKOLAT I PARTNERY PATENTNYE POVERENNYE; SYNERGY IP PTE LTD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: Multiple dispensing container for viscous materials, cups and toothpaste

Abstract: A bathroom dispenser for containing and dispensing health-related products, cups and toothpaste from a tube, including several longitudinally-extending containers each having a bottom end, an open top end for receiving the health-related product and dispensing means at the bottom end for dispensing the health related product. The dispenser also includes a longitudinally-extending cup dispenser disposed adjacent to the containers and having a bottom end, an open top end for receiving cups and flexible retaining means at the bottom end for singly dispensing the cups. The dispenser also includes a longitudinally-extending toothpaste dispenser disposed adjacent to the containers for receiving a tube of toothpaste having a flat crimped end and a threaded open end. The toothpaste dispenser has a bottom with an aperture and an open top end for receiving the tube of toothpaste so that the threaded open end extends through the aperture. The toothpaste dispenser engages the flat crimped end of the tube and is guided toward the aperture to gradually flatten the tube and dispense the toothpaste.

Classifications:

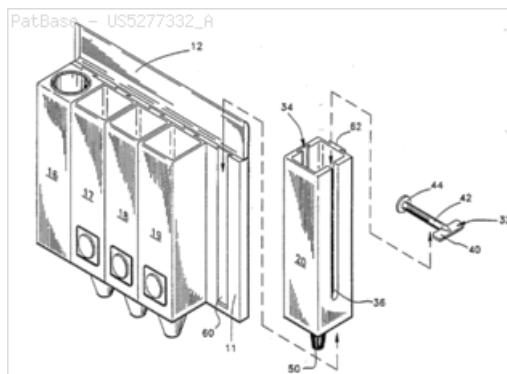
International (IPC 8-9): A47K5/12 (Advanced/Invention); A47K5/00 (Core/Invention)

International (IPC 1-7): B67D5/60

CPC: A47K5/12

European: A47K5/12

US: 221/96 222/100 222/106 222/132 222/143 222/181 222/181.2



Family:

Publication number	Publication date	Application number	Application date
US5277332 A	19940111	US19930013687	19930204

Priority:

US19930013687 19930204

Probable Assignee:	ROGERS ISABEL
Assignee(s): (std):	ROGERS ISABEL
Assignee(s):	CHAMBERLAIN GROUP INC
Inventor(s): (std):	ROGERS ISABEL

12) Family number: 55408049 (US2013345111A)

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Title: SOLID FAST DRAINING/DRYING RINSE AID FOR HIGH TOTAL DISSOLVED SOLID WATER CONDITIONS

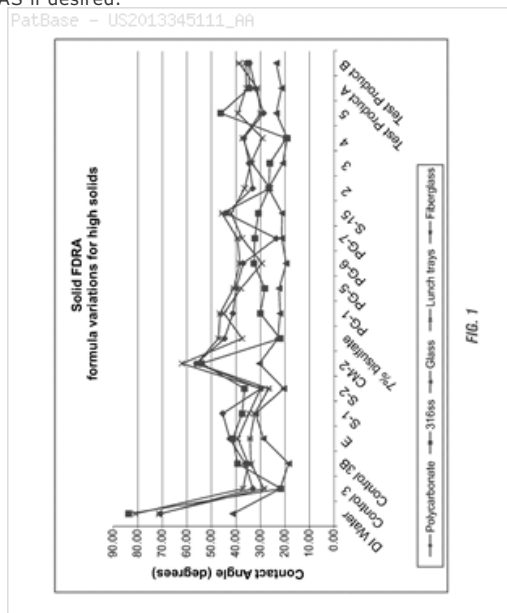
Abstract: The present invention is a solid rinse aid composition and methods of making and using the same. Applicants have surprisingly found that the crystal modifier sodium xylene sulfonate (short chain alkyl benzene or alkyl naphthalene sulfonates) at higher percentage can act as a solidification agent. The solid rinse aid composition generally includes an short chain alkyl benzene or alkyl naphthalene sulfonates solidification agent and an effective amount of a surfactant which can include a sheeting agent component, defoamer component and/or association disruption agent. The solid rinse aid composition may be phosphate-free, aminocarboxylate-free, and GRAS if desired.

Classifications:

International (IPC 8-9): A47L15/42 B08B3/08 B08B9/20 C11D1/12 C11D1/22 C11D1/66 C11D1/72 C11D1/722 C11D1/825 C11D11/00 C11D11/04 C11D17/00 C11D17/06 C11D3/00 C11D3/04 C11D3/20 C11D3/22 C11D3/30 C11D3/33 C11D3/34 C11D3/60 (Advanced/Invention)

CPC: C11D3/2082 C11D3/042 C11D1/66 C11D11/0035 C11D3/2068 C11D3/2075 C11D1/72 C11D11/0082 C11D11/0029 C11D3/2086 C11D3/3418 C11D3/3463 C11D11/0023 C11D1/722 C11D1/825 C11D3/0021 C11D17/0047

US: 134/25.2 510/224 510/445 510/495 510/513 510/514



Family:

Publication number	Publication date	Application number	Application date
AU2013277213 AA	20131227	AU20130277213	20130619
AU2013277213 BB	20160707	AU20130277213	20130619
AU2013399081 AA	20150305	AU20130399081	20130910
AU2013399081 BB	20161222	AU20130399081	20130910
AU2017201539 AA	20170323	AU20170201539	20170307
AU2017201539 BB	20181122	AU20170201539	20170307
AU2019201156 AA	20190307	AU20190201156	20190219
BR112014032331 A2	20170627	BR20141132331	20130619
BR112016004119 A2	20170801	BR20161104119	20130910
CA2877758 AA	20141222	CA20132877758	20130619
CA2913401 AA	20151124	CA20132913401	20130910
CA2913401 C	20180904	CA20132913401	20130910
CN104508105 A	20150408	CN201380032792	20130619
CN105324473 A	20160210	CN201380077663	20130910
EP2864461 A1	20150429	EP20130807799	20130619

EP2864461 A4	20160309	EP20130807799	20130619
EP3039107 A1	20160706	EP20130892591	20130910
EP3039107 A4	20170405	EP20130892591	20130910
JP2015521669 T2	20150730	JP20150518550T	20130619
JP2016534204 T2	20161104	JP20160538903T	20130910
JP2017210627 A2	20171130	JP20170161738	20170825
JP6208873 B2	20171004	JP20160538903T	20130910
JP6416758 B2	20181031	JP20150518550T	20130619
MX2016002237 A1	20160606	MX20160002237	20130910
US2013345111 AA	20131226	US20120530152	20120622
US2013345112 AA	20131226	US20130010815	20130827
US2015191680 AA	20150709	US20150659679	20150317
US2017107463 AA	20170420	US20160392764	20161228
US2018282666 AA	20181004	US20180975843	20180510
US9011610 BB	20150421	US20120530152	20120622
US9567551 BB	20170214	US20130010815	20130827
US10000725 BB	20180619	US20150659679	20150317
WO13192315 A1	20131227	WO2013US46589	20130619
WO15030836 A1	20150305	WO2013US59013	20130910

Priority:

US20120530152	20120622	WO2013US46589	20130619	US20130010815	20130827
AU20130399081	20130910	JP20160538903T	20130910	WO2013US59013	20130910
US20150659679	20150317	US20160392764	20161228	AU20170201539	20170307
JP20170161738	20170825	US20180975843	20180510	AU20190201156	20190219

Probable Assignee: ECOLAB USA INC

Assignee(s): (std): ECOLAB USA INC ; HUNTER MELISSA ; KIEFFER JANEL MARIE ; MAN VICTOR FUK PONG

Assignee(s): WEST KELSEY ; SUN XIN ; ANDERSON DERRICK

Inventor(s): (std): ANDERSON DERRICK ; DERRICK ANDERSON ; HUNTER MELISSA ; JANEL MARIE KIEFFER ; KELSEY WEST ; KIEFFER JANEL MARIE ; MAN VICTOR FUK PONG ; MELISSA HUNTER ; SUN XIN ; VICTOR FUK PONG MAN ; WEST KELSEY ; KIEFFER JANEL M

Inventor(s): XIN SUN

Agent(s): SPRUSON AND FERGUSON; BORDEN LADNER GERVAIS LLP; GODEMEYER BLUM LENZE PATENTANWAELTE PARTNERSCHAFT MBB; GODEMEYER BLUM LENZE PATENTANWAELTE PARTNERSCHAFT MBB WERKPATENT; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; MCKEE VOORHEES AND SEASE PLC; SORENSEN ANDREW D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 67014054 (WO17158244A1)

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Title: DISPENSER FOR MOISTENING AND DISPENSING HYGIENIC TOWELS

Abstract: According to an example aspect of the present invention, there is provided a moistened hygienic towel dispenser having a housing (20) with a storage area (23) for towels, a door (26) configured to permit removal of towels from the storage area (23), a reservoir (25) for storage or mixing of a liquid agent, and a moistening system (27) within the housing configured to transport liquid from the reservoir (25) to the towels.

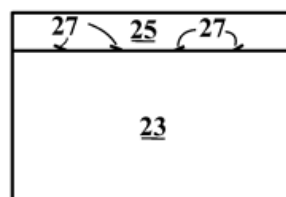
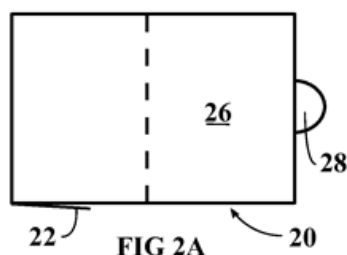
Classifications:

International (IPC 8-9): A47K10/32 A47K10/42

B65D83/08 (Advanced/Invention)

CPC: A47K10/32 A47K10/427 A47K2010/3266 A47K2010/3273

PatBase - WO17158244_A1



Family:

Publication number	Publication date	Application number	Application date
WO17158244 A1	20170921	WO2017FI50192	20170320

Priority:

Probable Assignee: KLEENU OY**Assignee(s):** (std): KLEENU OY**Inventor(s):** (std): HELLE SAKU ; OKSMAN MARKKU**Agent(s):** SEPPO LAINE OY**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**14) Family number: 30668055 (US2004118875A)**

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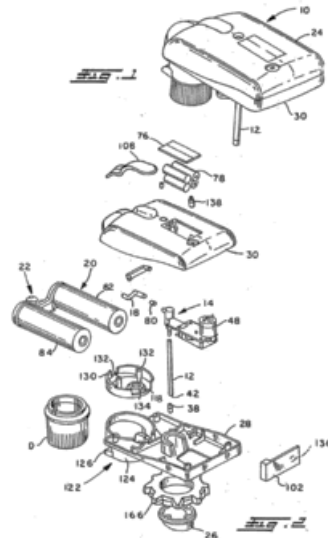
Title: RESERVOIR PRODUCT PUMP

Abstract: An automatic dispenser includes a housing, a reservoir, a pump, an intake tube, and exhaust tube, and a spigot. The reservoir is disposed in the housing. The pump includes a pump chamber and is disposed in the housing. The pump is for drawing liquid from an associated container. The intake tube is in fluid communication with the pump chamber. The intake tube is adapted to be disposed in the associating container. The exhaust tube is in fluid communication with the pump chamber and the reservoir. The spigot is for selectively discharging the liquid from the reservoir. An energy efficient, measured dose appliance is provided.

Classifications:**International (IPC 8-9):** G01F11/02 G01F11/06 (Advanced/Invention); G01F11/02 (Core/Invention)**International (IPC 1-7):** G01F11/06**CPC:** G01F11/029**European:** G01F11/02B10**US:** 222/333 222/382 222/383.1 222/464.1

PatBase - US2004118875_AA

Patent Application Publication Jun. 24, 2004 Sheet 1 of 9 US 2004/0118875 A1

**Family:**

Publication number	Publication date	Application number	Application date
US2004118875 AA	20040624	US20030669788	20030924
US7111762 BB	20060926	US20030669788	20030924

Priority:

US20020413312P 20020925

US20030669788 20030924

Probable Assignee: NOTTINGHAM SPIRK DESIGN ASSOCIATES**Assignee(s):** (std): ALTHOFF CHARLES PETER ; KALMAN JEFFERY ; NOTTINGHAM SPIRK DESIGN ASS ; SAUNDERS CRAIG M ; VITANTONIO MARC L**Assignee(s):** NOTTINGHAM SPIRK DESIGN ASSOCIATES**Inventor(s):** (std): ALTHOFF CHARLES PETER ; KALMAN JEFFERY ; SAUNDERS CRAIG M ; VITANTONIO MARC L**Agent(s):** FAY SHARPE FAGAN MINNICH AND MCKEE LLP**15) Family number: 31000061 (US2006255068A)**

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Title: FLEXIBLE FILM PACKAGE WITH INTEGRAL DOSING PUMP

Abstract: The present invention provides a liquid dispensing package (10) comprising a flexible film package formed with at least two spaced apart major surfaces joined to each other along their peripheral edges (12) and delimiting therebetween a liquid containing chamber, said package further comprising an integral dosing pump and at least one button (16) to operate the pump. The at least one button (16) is located adjacent to an edge (12) of the package (10).

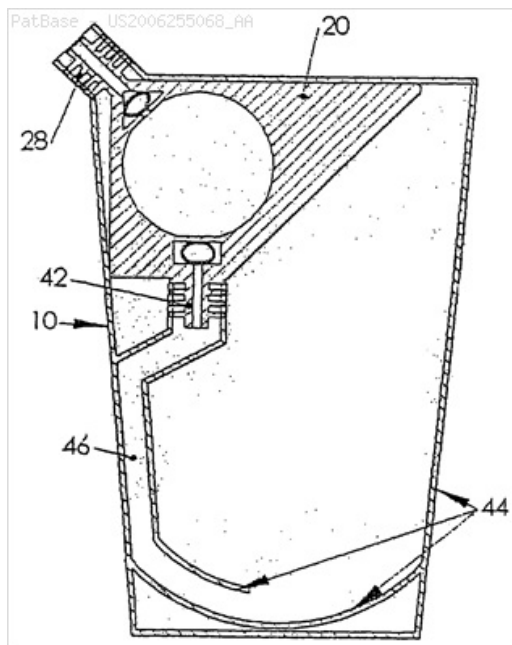
Classifications:**International (IPC 8-9):** B05B11/00 B65D37/00 (Advanced/Invention); B05B11/00 B65D37/00 (Core/Invention)**International (IPC 1-7):** B05B11/00 B65D**CPC:** B05B11/0041 B05B11/00412 B05B11/3032 B05B11/0037

B05B11/3035 B65D75/5883 B65D83/0055

European: B05B11/00B5 B05B11/00B5A B05B11/00B5A2

B05B11/30E6 B65D75/58G3C B65D83/00B L05B11/30E8

US: 222/207 222/211



Family:

Publication number	Publication date	Application number	Application date
EP1606061 A1	20051221	EP20040711680	20040217
IL155033 A0	20031031	IL20030155033	20030323
US2006255068 AA	20061116	US20040549999	20040217
WO04082849 A1	20040930	WO2004IL00145	20040217

Priority:

IL20030155033 20030323 WO2004IL00145 20040217

Probable Assignee: PROFILE DISPENSING INNOVATION LLC

Assignee(s): (std): GENOSAR AMIR ; PROFILE DISPENSING INNOVATION ; SILEX PROJECTS LTD

Assignee(s): PROFILE DISPENSING INNOVATION LLC

Inventor(s): (std): GENOSAR AMIR

Agent(s): ANDRUS SCEALES STARKE AND SAWALL LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

16) Family number: 56265061 (WO14059473A1)

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Title: DISPENSER

Abstract: The present invention provides a dispenser (11) through which water may pass to dispense a soapy fluid for cleaning objects such as hands. The dispenser comprises an upper portion (15), adapted to releasably secure the dispenser to a water outlet, and a lower portion (19) adapted to be rotatably retained relative to the upper portion so as to be rotatable between a first position and a second position. When in the first position the upper portion and lower portion provide a passage (81) through the dispenser. The passage aligns with the outlet when the dispenser is releasably secured thereto. The lower portion is adapted to retain soap therein such that when the lower portion is in the first position, water may flow from the outlet and through the passage, passing over the soap before exiting the dispenser in the form of a soapy liquid.

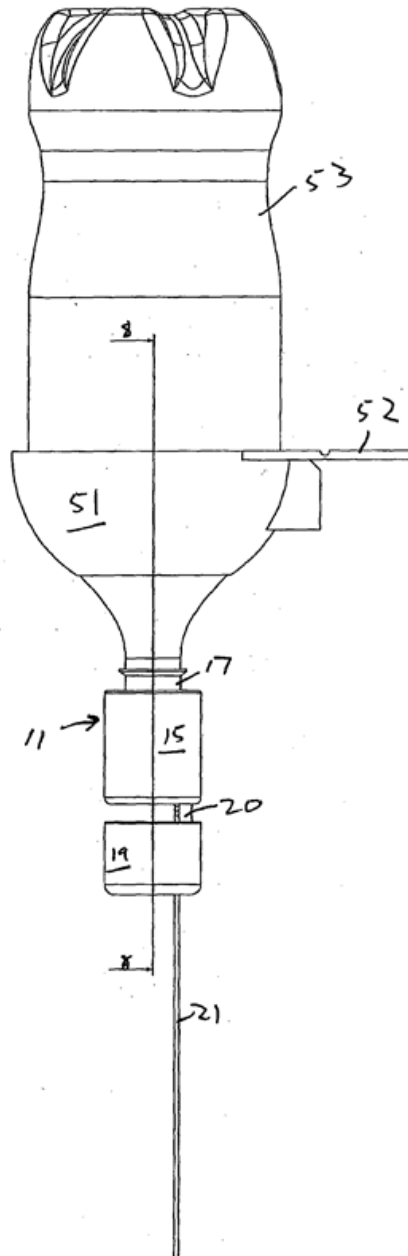
Classifications:

International (IPC 8-9): A47K5/00 A47K5/04 A47K5/06 A47K5/12

A47L15/44 E03C1/046 (Advanced/Invention)

CPC: A47K3/285

Figure 7

**Family:**

Publication number	Publication date	Application number	Application date
WO14059473 A1	20140424	WO2013AU01195	20131015

Priority:

AU20120904497 20121015

Probable Assignee: SOAPSTREAM PTY LTD**Assignee(s):** (std): SOAPSTREAM PTY LTD**Inventor(s):** (std): GREGORY KEITH ALWYN**Agent(s):** WRAYS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

17) Family number: 62413063 (AU2016202555B)

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Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING**Abstract:** An autonomous floor cleaning robot (100) includes a transport drive and control system (300,900) arranged for

autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis (102) carries a first cleaning zone (A) comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone (B) comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container (D) for storing waste materials collected up from the cleaning surface. 108 102 330 162 106

Classifications:

International (IPC 8-9): A47L11/00 A47L11/40 (Advanced/Invention)

PatBase - AU2016202555_AA

2016202555 21 Apr 2016

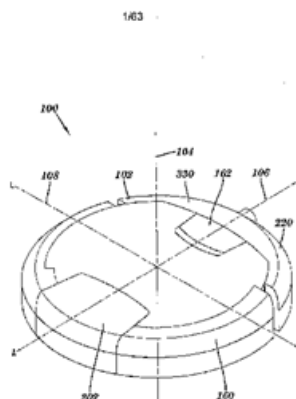


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AU2016202555 AA	20160519	AU20160202555	20160421
AU2016202555 BB	20181108	AU20160202555	20160421

Priority:

US20050654838P	20050218	US20050134213	20050521	US20050134212	20050521
US20050133796	20050521	US20050207574	20050819	US20050207620	20050819
US20050207575	20050819	AU20120205131	20120713	AU20140221266	20140905
AU20160202555	20160421				

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP

Inventor(s): (std): DUSSAULT NANCY ; GILBERT DUANE ; JONES ANDREW ; KONANDREAS STEPHANOS ; MORESE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL ; ZIEGLER ANDREW

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

18) Family number: 3694063 (US5044524A)

© PatBase

Title: Pressurized dispensing container

Abstract: A pressurized dispensing container consisting of a protective flask having a neck and a lid provided with a discharging pressure valve, and designed especially for dispensing hair lacquer, perfume, shaving cream, liquid soap, tooth paste, disinfectants, oils, ketchup and mustard, is provided in its interior with a closed resilient hollow body (7) provided about its periphery with at least one bead (6) serving for sealing the body (7) between the neck (4) of the protective flask (1) and the lid (9) thereof with the filling and discharging pressure valve.

Classifications:

International (IPC 8-9): B65D83/00 B65D83/14

B65D83/38 (Advanced/Invention);

B65D83/00 B65D83/38 (Core/Invention)

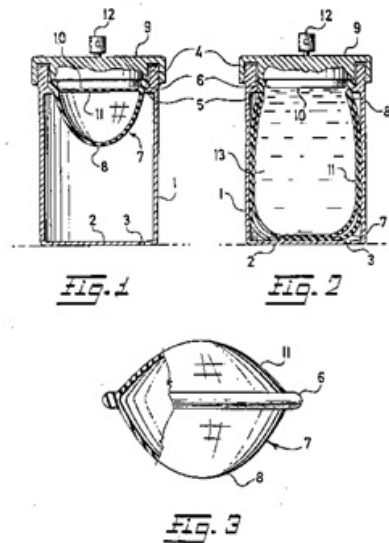
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B65D83/14 B65D83/38 B67D5/06

CPC: B65D83/0061

European: B65D83/00B1

US: 222/212 222/386.5

**Family:**

Publication number	Publication date	Application number	Application date
AT89526 E	19930615	AT19900300814T	19900125
BRPI9000344 A	19901204	BR1990PI00344	19900126
CA2008592 AA	19900727	CA19902008592	19900125
CS274299 B2	19910411	CS19890000538	19890127
CS8900538 A2	19900912	CS19890000538	19890127
DE69001616 D1	19930624	DE19906001616	19900125
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DK0380348 T3	19930614	DK19900300814T	19900125
EP0380348 A1	19900801	EP19900300814	19900125
EP0380348 B1	19930519	EP19900300814	19900125
ES2041128 T3	19931101	ES19900300814T	19900125
FI900421 A0	19900126	FI19900000421	19900126
FI98143 B	19970115	FI19900000421	19900126
FI98143 C	19970425	FI19900000421	19900126
HU212771 B	19961128	HU19900000274	19900125
HU56035 A2	19910729	HU19900000274	19900125
HU9000274 A0	19900328	HU19900000274	19900125
JP2269685 A2	19901105	JP19900015130	19900126
NO175091 B	19940524	NO19900000379	19900126
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NO900379 A	19900730	NO19900000379	19900126
NO900379 A0	19900126	NO19900000379	19900126
PL162130 B1	19930930	PL19900283468	19900126
PT92974 A	19900731	PT19900092974	19900126
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US5044524 A	19910903	US19900469939	19900125

Priority:

CS19890000538 19890127 CA19902008592 19900125 EP19900300814 19900125
 EP19900300814 19900125 EP19900300814 19900125

Probable Assignee: PISTEK VACLAV

Assignee(s): (std): JEDNOTNE ZEMED DRUZSTVO VITEZ ; JEDNOTNE ZEMEDELSE DRUZSTVO ; JEDNOTNE ZEMEDELSE DRUZSTVO V ; PISTEK VACLAV

Assignee(s): PISTEK VACLAV HLUK CS ; PISTEK VACLAV CS ; JZD VITEZNY UNOR BUDETSKO ; JZD VITEZNY UNOR BUDETSKO CS ; PIST K V CLAV ; JEDNOTNE ZEMEDELSE DRUZSTVO VITEZNY ; JEDNOTNE ZEMEDELSE DRUZSTVO VITEZNY UNOR ; JEDNOTNE ZEMEDELSE DRUZSTVO VITEZNY UNOR SE SIDLEM V BUDETSKU ; JEDNOTONEE JIEMEDERUSKEE DOURUJIYUSUTOBO BIITEZUNII UUNORU C SHIIDOUREMU BEE BUJIIETOSUKU

Inventor(s): (std): PIST K VACLAV ; PISTEK VACLAV

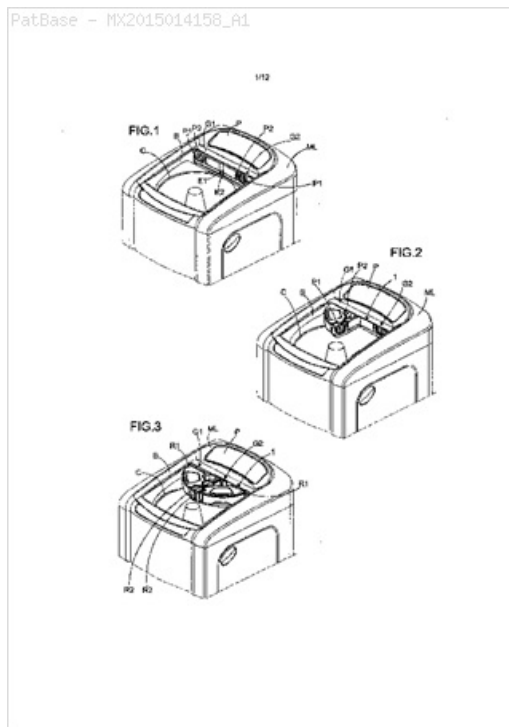
Inventor(s): BAATSURABU PISHIYUCHIEKU ; JEDNOTNE ZEMEDELSE DRUZSTVO VITEZNY UNOR ; PISTEK VACLAV CS ; VACLAV PISTEK ; PISTNK VACLAV ; PIST K V CLAV ; PISTEK VACLAV CS 687 25 HLUK CS

Designated states: AT BE CH DE DK ES FR GB IT LI NL SE

Abstract: Automatic dispenser of washing products with articulated and removable reservoirs applied in a washing machine, more particularly automatic dispenser (1) is of the type used in washing machines of the type "top load" (ml) and intended to contain and release products of laundry, such as liquid soap, fabric softener, laundry detergent and bleach according to schedule and pre-defined user cycles; the automatic dispenser (1) comprises two swivel drawers (G1) and (g2) identical to each other, which can be pivoted individually in the respective axis (e1) and / or (e2) in relation to a chassis (2); each rotating tray (gi) and (g2) accommodates a pair of reservoirs (R1) and (R2) cleaning of inputs (I1) and (I2); each pair of reservoirs (r) / (r2) is articulated on an axis (E1) / (E2) by means of handles (p1) and (p2) individual; both larger reservoirs (R1) receive the assembly of mechanical valves (V1) communicating with flow chambers (c), wherein said valves (vi) act in the corresponding modules (mi) of the tubular connection (4); each module (mi) is associated with a metering pump (di) passing the liquid input permission (I1) to the tank (c); the dosage is automatic and carried related to programming the control panel (p) of the washer (ml); smaller reservoirs (r2) receive dry input (I2) particulate, powdered, or other dissolvable in water and are housed in the rotary drawer (g1) or (g2); said lower reservoirs (r2) are open on the upper side and are mounted below the water distribution plate (3) provided, in turn, multiple bottom holes (3a) through which flows certain volume of water under machine programming command wash (ml); the input (I2), diluted by water from the plate (3) is directed into the vessel (c) through matching holes (9c) of the reservoir (R2) and holes (6e) of the support (6) and (2i) of the chassis (2).washingswashings.

Classifications:

International (IPC 8-9): D06F39/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
AR102205 AA	20170208	AR2015P103243	20151007
BR102014025005 A2	20160503	BR20141025005	20141007
CL2015002975 A1	20160909	CL20150002975	20151006
CL57093 B	20190305	CL20150002975	20151006
MX2015014158 A1	20160526	MX20150014158	20151007

Priority:

BR20141025005 20141007

Probable Assignee: ELECTROLUX AB

Assignee(s): (std): ELECTROLUX AB ; ELECTROLUX DO BRASIL SA

Assignee(s): ELECTROLUX DO BRASIL S A

Inventor(s): (std): RIK GURSKI LIMA ; VINCIUS M WEINERT ; ZENI LUIS FERNANDO FILHO ; ZENI FILHO LUIS FERNANDO ; WEINERT VINICIUS M ; VICENTE MARCONCIN VANHAZEBROUCK ; VANHAZEBROUCK VICENTE MARCONCIN ; MARCONCIN VANHAZEBROUCK VICENTE ; LUIS FERNANDO ZENI FILHO ; LIMA ERIK GURSKI ; GURSKI LIMA ERIK ; CARDOZO ADRIANO BONATTO ; BONATTO CARDOZO ADRIANO ; ADRIANO BONATTO CARDOZO

Inventor(s): ERIK GURSKI LIMA ; VINICIUS M WEINERT

Agent(s): BEUCHAT BARROS AND PFENNIGER

20) Family number: 42972073 (US2009050834A)

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Title: NOZZLES AND DECORATIONS OR ORNAMENTAL-FUNCTIONAL FEATURES

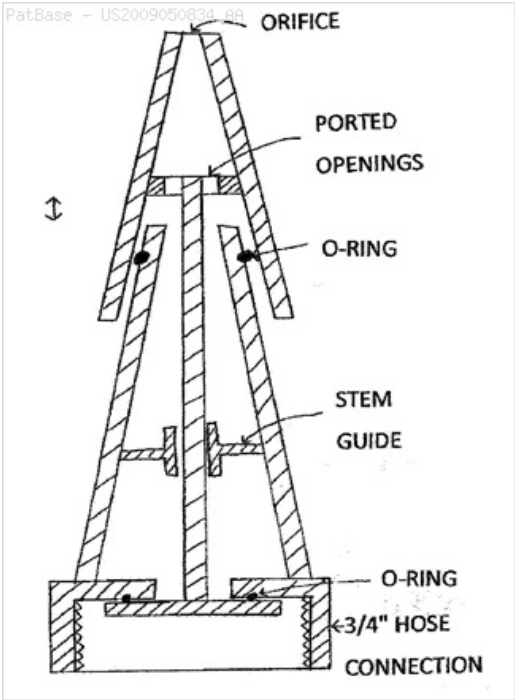
Abstract: There are two major applications here: Application 1: Balloon or toy filling device, with any other features besides the primary filling, dispensing, or balloon ridge or gripping features. Ornamental and ornamental-functional features are emphasized here, for example, use as a cover, protection, fitting, grip, handle, or hook (e.g. for hanging). Application 2: Method, system, and apparatus for balloon or toy valve actuated by (the force of) placing an object on the nozzle, or actuated at or by the nozzle egress, or using a one-handed operation means. Even though there are industrial valves out in the market place, there are none for water balloons, and none as easy to use, with one-handed operation, to be very practical and easy to use, by only one user (e.g. with one-hand push or pull operation, which is advantageous). The various variations and applications of each idea above are also discussed.

Classifications:

International (IPC 8-9): F16K15/06 (Advanced/Invention); F16K15/02 (Core/Invention)

CPC: A63H27/10 A63H2027/1033 A63H2027/1083

European: A63H27/10 K63H27/10G K63H27/10V



Family:

Publication number	Publication date	Application number	Application date
US2009050834 AA	20090226	US20070845041	20070825

Priority:

US20070845041 20070825

Probable Assignee: BOISE WAYNE SCOTT
Assignee(s): (std): BOISE WAYNE SCOTT ; FRAUND JR JOHN MICHAEL
Inventor(s): (std): FRAUND JR JOHN MICHAEL ; BOISE WAYNE SCOTT
Agent(s): MAXVALUEIP CONSULTING

21) Family number: 42972078 (US2009050835A)

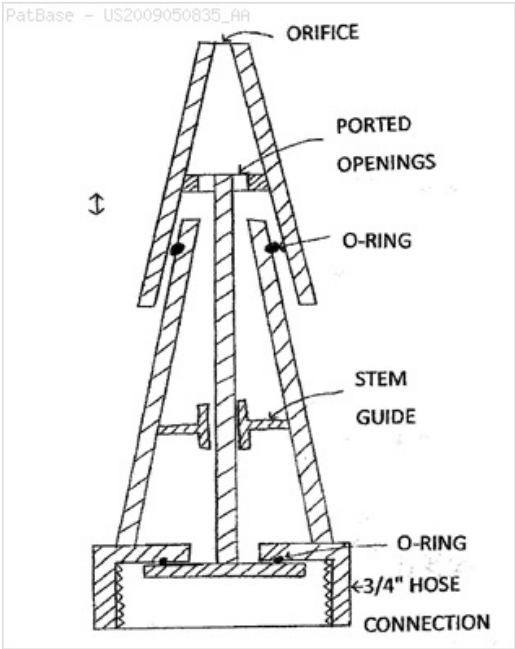
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Title: NOZZLES AND DECORATIONS OR ORNAMENTAL-FUNCTIONAL FEATURES

Abstract: There are two major applications here: Application 1: Balloon or toy filling device, with any other features besides the primary filling, dispensing, or balloon ridge or gripping features. Ornamental and ornamental-functional features are emphasized here, for example, use as a cover, protection, fitting, grip, handle, or hook (e.g. for hanging). Application 2: Method, system, and apparatus for balloon or toy valve actuated by (the force of) placing an object on the nozzle, or actuated at or by the nozzle egress, or using a one-handed operation means. Even though there are industrial valves out in the market place, there are none for water balloons, and none as easy to use, with one-handed operation, to be very practical and easy to use, by only one user (e.g. with one-hand push or pull operation, which is advantageous). The various variations and applications of each idea above are also discussed.

Classifications:

International (IPC 8-9): F16K15/06 (Advanced/Invention); F16K15/02 (Core/Invention)
CPC: A63H27/10 A63H2027/1033 A63H2027/1083
European: A63H27/10 K63H27/10G K63H27/10V
US: 251/320



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20070845053 20070825

Probable Assignee: BOISE WAYNE SCOTT**Assignee(s):** (std): BOISE WAYNE SCOTT ; FRAUND JR JOHN MICHAEL**Inventor(s):** (std): FRAUND JR JOHN MICHAEL ; BOISE WAYNE SCOTT**Agent(s):** MAXVALUEIP CONSULTING**22) Family number: 65128081** (US2017066823A)

© PatBase

Title: THYMIC STROMAL LYMPHOPOIETIN (TSLP)-BINDING MOLECULES AND METHODS OF USING THE MOLECULES**Abstract:** The invention provides molecules, e.g., antibodies or antibody fragments, that specifically bind thymic stromal lymphopoietin (TSLP), compositions comprising these molecules, and methods of using and producing these molecules.**Classifications:**

International (IPC 8-9): A61K A61K31/225 A61K38/00 A61K38/22 A61K38/28 A61K39/00 A61K39/395 A61K45/00 A61K45/06 A61K47/04 A61K47/10 A61K47/14 A61K47/18 A61K47/22 A61K47/26 A61K47/42 A61K9/00 A61K9/12 A61K9/14 A61K9/16 A61K9/72 A61P A61P1/04 A61P11/00 A61P11/02 A61P11/06 A61P17/00 A61P29/00 A61P37/06 A61P37/08 A61P43/00 C01B25/00 C07K C07K14/00 C07K16/00 C07K16/24 C12N1/15 C12N1/19 C12N1/21 C12N15/13 C12N15/62 C12N15/63 C12N15/85 C12N5/10 C12P21/08 G01N33/531 (Advanced/Invention); A61K39/00 (Advanced/Non-invention)

International (IPC 1-7): A61K9/00 A61P11/06 A61P37/08 C07K16/24 A61K2039/545 C07K2317/33 C07K2317/34 C07K2317/76 A61K9/1688 A61K39/0011 A61K2039/5158 A61K2039/55522 C07K2317/90 A61P37/08 C07K16/24 A61K39/3955 A61K45/06 C07K2317/21 A61K9/1682 A61K39/395 A61K9/0075 A61K38/2221 A61K9/0043 A61K9/1617 A61K9/1623 A61P11/06 C07K16/244 C07K2317/94

US: 424/490

PatBase - US2017066823A Fig. 1A

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EVQLVESGGGLVQPGGSLRLSCAASGFTFSDYWGDNVQAPGKGLKLVYK***
***DIKSKTDAGTTDYAAPVE
GRFTISRDDEKNTLYLQMNSLKEDEDTAVYYCAR***
***ELITYYAPDENQDGLTVTSSEASTKGPVFPPLAG
SKETSGGTAAALGCLVKDYFPEPVTVWNISGALTSGVHTFPAVLQSSGLYSLSSVTVPSSESLGTQY
ICVNNHKPSTNKVKRVEPKSC (SEQ ID NO: 22)

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Fig. 1B

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SYELTSLPFLVVALQQTARITCGENIGQETVEYVQKPGQAPFLVIVG***
***WRRPSTIPERFGDENSENTATLTIS
RAGAGDEADYTCQAADVDVDFV***
***FGDTLTVLQGFAPSVTLFPFSSSELCANATLVCLISDFYPAVTANK
ADSSPVVAGVETTTFSKQNNKYAASSYLSTPQKSKHSTSCVTHREGSTVEKTVAPTECS (SEQ ID NO: 25)

```

Fig. 2

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29 31 41 61 81 101 121 141 161 181 201 221 241 261 281 301
YD FTNCDFEKIK AAYLSTISKD LITYMSGTKS TEFNNTVSCS NRPHCLTEIQ SLTFNPTAGC
MGSSHHHHHHLEVLFGQP
81 101 121 141 161 181 201 221 241 261 281 301
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Family:

Publication number	Publication date	Application number	Application date
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AU2016320748 AA	20180315	AU20160320748	20160907
AU2016320748 AH	20180531	AU20160320748	20160907
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JP2018529678 T2	20181011	JP20180512514T	20160907
JP2018533911 T2	20181122	JP20180512573T	20160907
KR20180042433 A	20180425	KR20187009522	20160907
KR20180050320 A	20180514	KR20187006432	20160907
MX2018003038 A1	20180411	MX20180003038	20160907
PE13682018 A1	20180827	PE20180000352	20160907
PH2018500482 A	20180910	PH20180500482	20180306
TW201723481 A	20170701	TW20160129100	20160908
US2017066823 AA	20170309	US20160258683	20160907
US2018303753 AA	20181025	US20160758643	20160907
US2018327489 AA	20181115	US20180973735	20180508
US10000561 BB	20180619	US20160258683	20160907
UY36889 A1	20170428	UY20160036889	20160907
WO17042696 A1	20170316	WO20161B55331	20160907
WO17042701 A1	20170316	WO20161B55336	20160907
ZA201801075 A	20181128	ZA20180001075	20180216

Priority:

US20150215904P 20150909

US20150216050P 20150909

US20160342511P 20160527

US20160258683 20160907

US20160758643 20160907

WO20161B55331 20160907

WO20161B55336 20160907

US20180973735 20180508

Probable Assignee: NOVARTIS AG

Assignee(s): (std): ANDLAUER BARBARA ; EDWARDS MATTHEW JOHN ; GUPTA KAPIL ; HAUBST NICOLE ; KNOPF HANS PETER ; MILLER DANFORTH ; HUANG DANIEL ; HEMMIG RENE ; NOVARTIS AG ; NOVARTIS INT AG ; RONDEAU JEAN MICHEL RENE ; VAN HEEKE GINO ANSELMUS ; UNG KEITH TRY ; SON YOEN JU ; WEERS JEFFRY ; RAO NAGARAJA ; WEERS JEFFRY G

Assignee(s): NOVARTIS PHARMA AG ; NOVARTIS PHARMACEUTICALS CORP ; NOVARTIS PHARMACEUTICALS UK LTD ; MORPHOSYS AG ; NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH INC

Inventor(s): (std): ANDLAUER BARBARA ; BARBARA ANDLAUER ; DAN MILLER ; DANFORTH MILLER ; DANIEL HUANG ; DANIEL PETER HUANG ; EDWARDS MATTHEW JOHN ; GINO ANSELMUS VAN HEEKE ; GINO ANSELMUSVAN HEEKE ; GUPTA KAPIL ; HANS KNOPF ; HANS PETER KNOPF ; HAUBST NICOLE ; HEMMIG RENE ; HEMMING RENE ; HUANG DANIEL ; JEAN MICHEL RENE RONDEAU ; JEAN RONDEAU ; KAPIL GUPTA ; KNOPF HANS PETER ; MATTHEW JOHN EDWARDS ; MATTHEW JOHN MICHEL RENE EDWARDS ; MILLER DAN ; MILLER DANFORTH ; NICOLE HAUBST ; RAO NAGARAJA ; RENE HEMMIG ; RENE HEMMING ; RONDEAU JEAN MICHEL RENE ; SON YOEN JU ; UNG KEITH TRY ; VAN HEEKE GINO ANSELMUS ; WEERS JEFFRY ; WEERS JEFFRY G

Inventor(s): WEERS JEFFREY ; RONDEAU JEANMICHEL RENE ; KNOPF HANSPETER

Agent(s): DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO; RODRIGO MARRE GREZ; CARLOS REINALDO OLARTE GARCIA; STIERWALD MICHAEL; DIDELON FREDERIC; BUDI RAHMAT SH; KOBAYASHI HIROSHI; KATAYAMA EIJI; OHMORI NORIO; ADAM; MAZZA MIKE; NOVARTIS AG

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

23) Family number: 61842086 (US2016067866A)

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Title: AUTOMATED COOKING MACHINE USING A CARTESIAN BOT

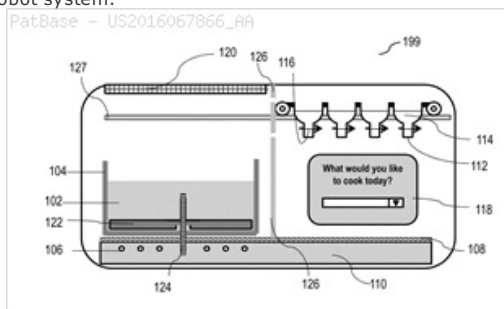
Abstract: An automated cooking machine is described wherein various functions, such as dispensing, stirring, chopping, baking and cleaning are conducted by intelligent use of a Cartesian robot system.

Classifications:

International (IPC 8-9): A21C1/14 A21D8/06 A47F1/02 A47F1/035 A47J36/00 A47J44/00 A47J44/02 B05B7/24 B25J11/00 B25J9/00 B25J9/02 B65D83/06 B67D7/02 (Advanced/Invention)

CPC: A47J44/00 Y10S901/16 A47J36/00 B25J9/026

US: 901/16 99/348 99/353



Family:

Publication number	Publication date	Application number	Application date
EP3209134 A1	20170830	EP20150840037	20150908
EP3209134 A4	20180905	EP20150840037	20150908
US2016067866 AA	20160310	US20150847959	20150908
US2017172351 AA	20170622	US20170449548	20170303
US2018310773 AA	20181101	US20180945483	20180404
WO16040361 A1	20160317	WO2015US49003	20150908
WO17155829 A2	20170914	WO2017US20785	20170303
WO17155829 A3	20171019	WO2017US20785	20170303
WO18161096 A2	20180907	WO2018US26065	20180404
WO18161096 A3	20181101	WO2018US26065	20180404

Priority:

US20140047785P 20140909	US20140056368P 20140926	US20140094595P 20141219
US20150150303P 20150421	US20150185524P 20150626	US20150201105P 20150804
US20150847959 20150908	WO2015US49003 20150908	US20160304277P 20160306
US20170449548 20170303	US20170481217P 20170404	US20180945483 20180404

Probable Assignee: CASABOTS INC

Assignee(s): (std): BHAT SANATH ; CASABOTS INC ; CHOWBOTICS ; KATHIRASEN KATHIRGUGAN ; REIDLING VICTORIA ; RICHARDSON BRIAN ; SEKAR DEEPAK

Inventor(s): (std): BHAT SANATH ; BOSE AMIT ; CHAUDHURI RUPSHA ; KATHIRASEN KATHIRGUGAN ; REIDLING VICTORIA ; RICHARDSON BRIAN ; SEKAR DEEPAK ; SEKAR DEEPAK C ; SEKAR DEEPAK CHANDRA ; SWAB PHIL

Agent(s): REICHERT AND LINDNER PARTNERSCHAFT PATENTANWALTE; FARNSWORTH TODD R; SCHWARZ STEVEN J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

24) Family number: 31717090 (US2005072449A)

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Title: DISHWASHER AND METHOD

Abstract: A personal dishwasher washes and dries a dish that is manually or mechanically moved through a dishwasher

chamber or is manually placed in and manually removed from the chamber. Pressurized water, possibly containing soap, wetting agent, etc., may be added to the wash water. Steam may be used to for cleaning and/or disinfecting. Ultraviolet light may be used for disinfecting. The dishwasher chamber may be enlarged to pass larger dishes, bowls, glassware, etc. for washing. A method of washing dishes, comprising inserting a dish manually into a dishwasher, passing the dish through the dishwasher, and withdrawing the dish. A method of washing a dish, comprising inserting a single dish into a dishwasher, directing fluid under pressure at the dish, directing air flow at the dish, and withdrawing the dish.

Classifications:

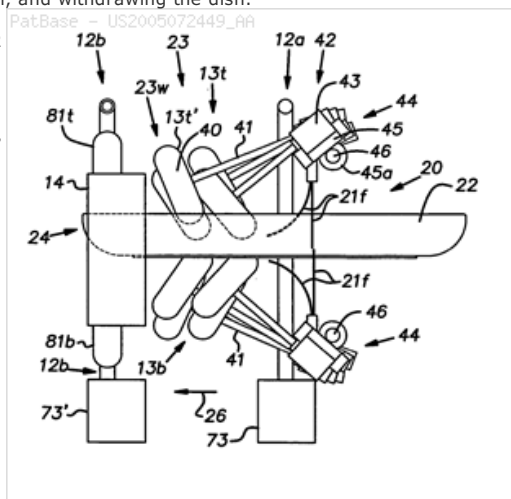
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International (IPC 1-7): A47L15/00 A47L15/16 A47L15/26 A47L15/37 A47L15/42 B08B3/12 B08B9/20

CPC: A47L15/507 A47L15/46 A47L15/0089 A47L15/4234 A47L15/4242 A47L15/0002 A47L15/485 A47L2601/04

European: A47L15/00A A47L15/00D2 A47L15/00J A47L15/26 A47L15/37 A47L15/42E A47L15/42F6 A47L15/42J A47L15/48C K47L601/04

US: 1/1 134/1 134/198 134/198S 134/25.1 134/25.100P 134/25.2 134/25.200S 134/56 134/56.00DS 134/56D 134/58 134/58.00D 134/58.00DS 134/58D 134/58R 134/94.1 134/94.100S



Family:

Publication number	Publication date	Application number	Application date
CN1870928 A	20061129	CN200480031454	20040826
EP1662964 A2	20060607	EP20040801919	20040826
IL173900 A0	20060705	IL20040173900	20040826
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JP2007503877 T2	20070301	JP20060524858T	20040826
JP2011067644 A2	20110407	JP20100252146	20101110
US2005072449 AA	20050407	US20040926765	20040826
US2010012163 AA	20100121	US20090568865	20090929
US2016278604 AA	20160929	US20160178816	20160610
US7604012 BB	20091020	US20040926765	20040826
US9386902 BB	20160712	US20090568865	20090929
US9949610 BB	20180424	US20160178816	20160610
WO05018407 A2	20050303	WO2004US27794	20040826
WO05018407 A3	20051110	WO2004US27794	20040826

Priority:

US20030498177	20030826	US20030498177P	20030826	US20030498177P	20030826
US20030525083P	20031125	US20040542251P	20040205	US20040554654P	20040319
JP20060524858	20040826	US20040926765	20040826	WO2004US27794	20040826
US20090568865	20090929	US20160178816	20160610		

Probable Assignee: ALPERT MARTIN A

Assignee(s): (std): ALPERT MARTIN A ; BRUML WILLIAM ; MARTIN A ALPERT ; SKLAR WARREN A ; WARREN A SKLAR ; WILLIAM BRUML

Inventor(s): (std): ALPERT MARTIN A ; ALPERT MARTIN A BRUML WILLIAM ; BRUML WILLIAM ; SKLAR WARREN A

Inventor(s): WARREN A SKLAR ; WILLIAM BRUML ; ALPERT MARTIN ; SKLAR WARREN

Agent(s): WARREN A SKLAR RENNER OTTO BOISSELLE AND SKLAR LLP; RENNER OTTO BOISSELLE AND SKLAR LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

25) Family number: 53090092 (WO13029770A1)

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Title: TOUCH-FREE FLUID APPLICATION DEVICE

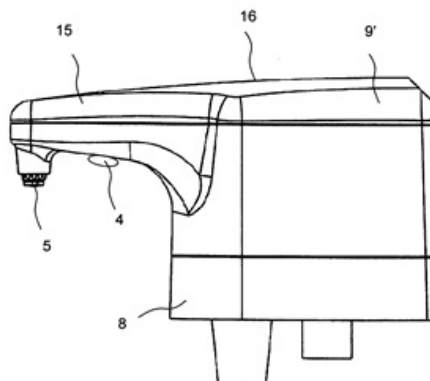
Abstract: The invention relates to a fluid application device (90) having an automatic fluid dispense, comprising an application head (9') having at least one sensor (4) and one nozzle (5) for dispensing fluid, wherein the nozzle is fluidically connected to a reservoir (30), which is a vessel (8') under excess pressure having an outlet that can be opened or closed by means of a valve. An application arm (15) is provided on the upper side of the application head (9'), on which arm the nozzle (5) is arranged pointing downwards. In the application head (9'), a sensor-activated control unit for opening and closing the valve is provided, which control unit is connected to the nozzle (5) via a connecting piece for dispensing the fluid. On the application head (9'), a pressure vessel adapter piece for retaining the pressure vessel is arranged. The invention further relates to a fluid application device (100) that is constructed in the manner described but is not intended for pressure vessels and thus requires a pump.

Classifications:

International (IPC 8-9): A47K5/12 A61B19/00 B05B12/12 B05B9/04 B05B9/043 B65D83/26 B67D7/02 (Advanced/Invention)

CPC: A47K5/1217 B05B9/04 B05B9/043 B05B12/122 A47K5/12 A47K2201/00 A61B90/80 B65D83/26 B65D83/388

Fig. 2a

**Family:**

Publication number	Publication date	Application number	Application date
EP2561820 A1	20130227	EP20110006973	20110826
WO13029770 A1	20130307	WO2012EP03597	20120827

Priority:

EP20110006973 20110826

Probable Assignee: SCHNEIDER, HARTMUT J.**Assignee(s):** (std): METZGER STEPHAN ; PRISMAN PHARMA INT AG ; PRISMAN PHARMA INTERNAT AG ; SCHNEIDER HARTMUT J ; SCHNEIDER HARTMUT**Assignee(s):** PRISMAN PHARMA INTERNATIONAL AG**Inventor(s):** (std): METZGER STEPHAN ; SCHNEIDER HARTMUT ; SCHNEIDER HARTMUT J**Agent(s):** Schmitt Meinrad; SCHMITT MEINRAD F**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**26) Family number: 3320103 (WO9014037A1)**

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Title: DEVICE FOR DISPENSING PORTIONS OF A MEDIUM

Abstract: In a device for dispensing a liquid or highly viscous medium from a container, a release element (1) actuates a feed element (7) which dispenses a quantity of gas. At least some of the gas enters a container (15) in which the liquid or paste-like medium to be dispensed (17) is arranged. This container is effectively connected via a control valve (23), which is arranged after an outlet (18) of the container for dispensing the medium and which co-operates with the release element and/or feed element, to a work station to which the medium is fed. The release element and/or feed element drive(s) his work station in order to carry out another operation with the medium dispensed, such as producing a foam or coating a flat substrate. The release element can be triggered both manually and without contact, for example optically. The feed element can include either a cylindrical pressure piston or a pressure cartridge to produce the quantity of gas to be dispensed.

Classifications:**International (IPC 8-9):** A47K10/32 A47K5/14 B05B11/00 B05B7/00 (Advanced/Invention);

A47K10/24 A47K5/00 B05B11/00 B05B7/00 (Core/Invention)

International (IPC 1-7): A47K10/32 A47K5/14**CPC:** A47K5/14 A47K10/32 A47K2010/3273 B05B7/0025 B05B11/3087**European:** A47K10/32 A47K5/14 B05B11/00E B05B11/30L B05B7/00C1 K47K10/32W1

PatBase - W09014037_A1

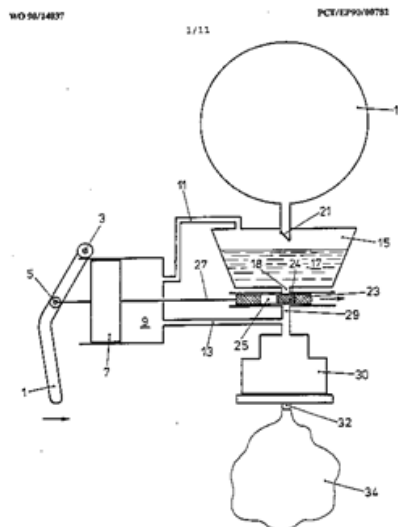


FIG. 1

ERSATZBLATT

Family:

Publication number	Publication date	Application number	Application date
AU199056530 A1	19901218	AU19900056530	19900515
WO9014037 A1	19901129	WO1990EP00782	19900515

Priority:

CH19890001803 19890516 WO1990EP00782 19900515

Probable Assignee: PECH VIKTOR

Assignee(s): (std): PECH VIKTOR ; VIKTOR PECH

Inventor(s): (std): KLAMMSTEINER KARL

Inventor(s): KARL KLAMMSTEINER

Designated states: AT AU BE CA CH DE DK ES FI FR GB IT JP KR LU NL NO SE US

27) Family number: 29732105 (US6649222B)

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Title: Modulated plasma glow discharge treatments for making superhydrophobic substrates

Abstract: A method for treating substrates including the steps of: providing a substrate; exposing said substrate to a plasma glow discharge in the presence of a fluorocarbon gas; maintaining said gas at a pressure between about 50 mTorr and about 400 mTorr; generating said plasma as a modulated glow discharge; pulsing said discharge at an on time of 1-500 milliseconds; pulsing said glow at an off time of 1-1000 milliseconds; maintaining said plasma glow discharge at a power density of 0.02-10 watts/cm²; and applying a hydrophobic coating to said substrate.

Classifications:

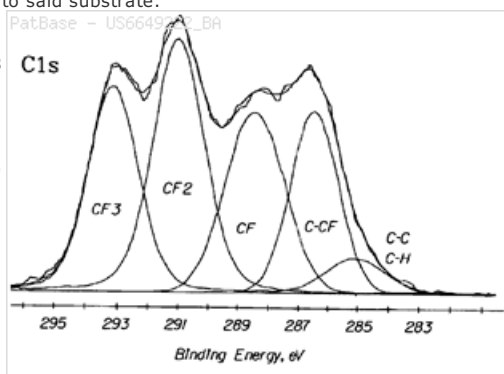
International (IPC 8-9): A41D31/00 B05D5/08 B05D7/24 B29B15/00 B60J3/02 C03C17/22 C03C17/28 C03C17/32 C03C23/00 C04B41/48 C08J7/16 C23C16/30 C23C16/32 C23C16/50 C23C16/515 C23C26/00 D06M10/02 D06M10/10 D06M15/256 D06M15/277 E03D11/02 E03D13/00 E03D9/00 (Advanced/Invention); A41D31/00 B05D5/08 B29B15/00 B60J3/02 C23C16/32 C23C16/50 C23C26/00 E03D11/02 E03D13/00 E03D9/00 (Advanced/Non-invention)

International (IPC 1-7): A41D31/00 B05D7/24 B29B15/00 B60J3/02 C03C17/28 C03C17/32 C04B41/48 C08J7/16 C08J7/18 C08L101/00 C23C16/30 C23C16/32 C23C16/50 C23C26/00 D06M10/02 D06M10/10 D06M15/256 D06M15/277 E03D11/02 E03D13/00 E03D9/00

CPC: B05D1/62 B05D5/083 C03C17/22 C03C17/32 C03C23/006 C03C2217/282 C03C2217/285 C03C2217/76 C03C2218/153 C23C16/30 C23C16/515

European: B05D1/62 B05D7/24E C03C17/22 C03C17/32 C03C23/00B22 C23C16/30 C23C16/515 L05D5/08C M03C217/282 M03C217/285 M03C217/760 M03C218/153

US: 427/212 427/213.31 427/216 427/221 427/222 427/243 427/247 427/255.14 427/294 427/295 427/296 427/490 427/491 427/492 427/561 427/562 427/570



Family:

Publication number	Publication date	Application number	Application date
AU199958139 A1	20000327	AU19990058139	19990907
AU199958139 A5	20000327	AU19990058139	19990907
AU199958216 A1	20000327	AU19990058216	19990907
AU199958216 A5	20000327	AU19990058216	19990907
AU199960354 A1	20000327	AU19990060354	19990907
AU199960354 A5	20000327	AU19990060354	19990907
AU199960355 A1	20000327	AU19990060355	19990907
AU199960355 A5	20000327	AU19990060355	19990907
BRPI9913497 A	20010605	BR1999PI13497	19990907
CA2340448 AA	20010213	CA19992340448	19990907
CA2342330 AA	20010228	CA19992342330	19990907
CA2343154 AA	20010302	CA19992343154	19990907
CA2343160 AA	20010302	CA19992343160	19990907
CN1322264 A	20011114	CN19998011889	19990907
DE69916468 D1	20040519	DE19996016468	19990907
DE69916468 D1	20040519	DE19996016468T	19990907
DE69916468 T2	20050525	DE19996016468T	19990907
EP0985741 A1	20000315	EP19980116895	19980907
EP1112391 A1	20010704	EP19990945559	19990907
EP1112391 B1	20040414	EP19990945559	19990907
EP1112404 A1	20010704	EP19990968690	19990907
EP1115902 A1	20010718	EP19990945652	19990907
EP1115904 A1	20010718	EP19990968687	19990907
ES2220112 T3	20041201	ES19990945559T	19990907
JP2002524660 T2	20020806	JP20000569035T	19990907
JP2003514983 T2	20030422	JP20000569036T	19990907
JP2003514984 T2	20030422	JP20000569037T	19990907
JP2003521588 T2	20030715	JP20000569055T	19990907
US6649222 BA	20031118	US20010786085	20010228
WO0014297 A1	20000316	WO1999US20504	19990907
WO0014298 A1	20000316	WO1999US20923	19990907
WO0014299 A1	20000316	WO1999US20925	19990907
WO0014323 A1	20000316	WO1999US20926	19990907

Priority:

EP19980116895 19980907	EP19990945559 19990907	EP19990945652 19990907
EP19990968690 19990907	EP19990968687 19990907	WO1999US20923 19990907
WO1999US20926 19990907	WO1999US20925 19990907	WO1999US20504 19990907
US20010786085 20010228		

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): DATTA SASWATI ; FAVIA PIETRO ; FRANCE PAUL AMAAT RAYMOND GERA ; SCHONE RAINER WALTER MAX ; PROCTER AND GAMBLE ; MARCHESINI MAURIZIO ; PALUMBO GIANFRANCO ; LAMENDOLA RITALBA ; RADOMYSELSKIY ARSENIY VALEREVI ; PROCTER AND GAMBLE CO ; AGOSTINO RICCARDO D ; CORZANI ITALO ; SCHONE RAINIER WALTER MAX ; THE PROCTER AND GAMBLE COMPANY

Assignee(s): THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; D AGOSTINO RICCARDO ; RADOMYSELSKI ARSENIY VALEREVICH ; PROCTER AND GAMBLE CO CINCINNATI ; FRANCE PAUL AMAAT RAYMOND GERARD ; RADOMYSELSKIY ARSENIY VALEREVICH

Inventor(s): (std): AGOSTINO RICCARDO D ; ARSENIY VALEREVICH RADOMYSELSKIY ; FRANCE PAUL AMAAT RAYMOND GERARD ; GIANFRANCO PALUMBO ; ITALO CORZANI ; MAURIZIO MARCHESINI ; PAUL AMAAT RAYMOND GERARD FRANCE ; PIETRO FAVIA ; RADOMYSELSKIY ARSENIY VALEREVICH ; RAINER WALTER MAX SCHONE ; RAINIER WALTER MAX SCHONE ; PALUMBO GIANFRANCO ; MARCHESINI MAURIZIO ; LAMENDOLA RITALBA ; LAMENDOLA RITALBA ; FRANCE PAUL AMAAT RAYMOND GERA ; FAVIA PIETRO ; DATTA SASWATI ; D AGOSTINO RICCARDO ; CORZANI ITALO ; SCHONE RAINER WALTER MAX ; AGOSTINO RICCARDO D ; RICCARDO D AGOSTINO ; RITALBA LAMENDOLA ; SASWATI DATTA ; SCHONE RAINIER WALTER MAX ; RADOMYSELSKIY ARSENIY VALEREVI

Inventor(s): RADOMYSELSKI ARSENIY VALEREVICH ; RICCARDO D AGOSTINO ; PAUL AMAAT RAYMOND GERALD FRANCE

Agent(s): MBM AND CO; KIRBY EADES GALE BAKER; DIMOCK STRATTON LLP

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

28) Family number: 71679119 (US2018312283A)

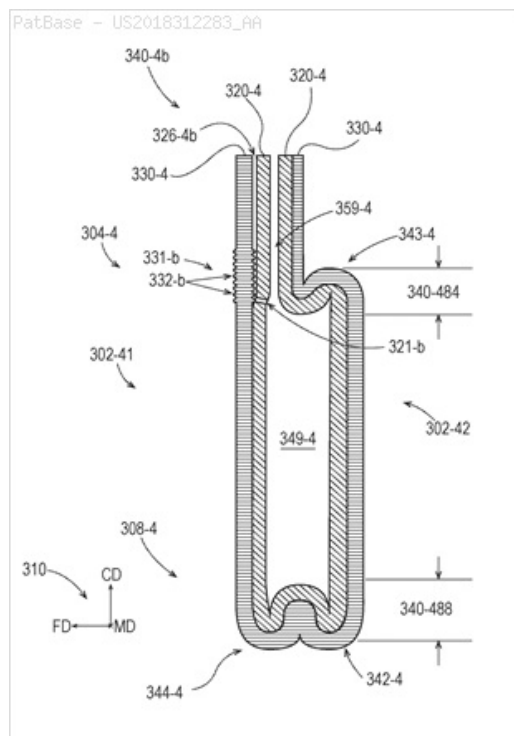
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Title: METHODS OF ADDING EXPANSION MATERIAL TO FLEXIBLE CONTAINERS

Abstract: Methods of opening and adding expansion materials to containers made from flexible materials. The methods involve forming a partially completed container blank that may have four layers of flexible materials. The partially completed container blank may be opened by separating a portion of the first layer from a portion of the second layer by bending portions of the second, third, and fourth layers toward a first direction; and dosing the partially completed container blank, by adding an expansion material out of a dispenser and into a space disposed between a portion of the first layer and a portion of the second layer.

Classifications:

International (IPC 8-9): B65B3/02 B65B31/00 B65B39/00 B65B39/12 B65B43/06 B65B43/26 B65B43/36 B65B51/14 B65B61/00 B65B61/02 B65B61/06 B65B61/18 B65B9/087 B65B9/093 B65D6/00 B65D75/00 B65D75/58 (Advanced/Invention) **CPC:** B65B39/007 B65D11/20 B65B9/087 B65B9/093 B65B39/12 B65B43/06 B65B43/26 B65B43/36 B65B51/146 B65B61/005 B65B61/02 B65B61/06 B65B61/18 B65D75/5811 B65B31/006 B65B3/02 B65D75/008



Family:

Publication number	Publication date	Application number	Application date
US2018312283 AA	20181101	US20180953691	20180416
WO18200231 A1	20181101	WO2018US27736	20180416

Priority:

US20170490894P 20170427 US20180953691 20180416

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): BOURGEOIS MARC ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN ; CLARE BENJAMIN JACOB ; KOLB KUNIE ; LESTER JOSEPH ; LESTER JOSEPH CRAIG ; YOU JUN

Agent(s): KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

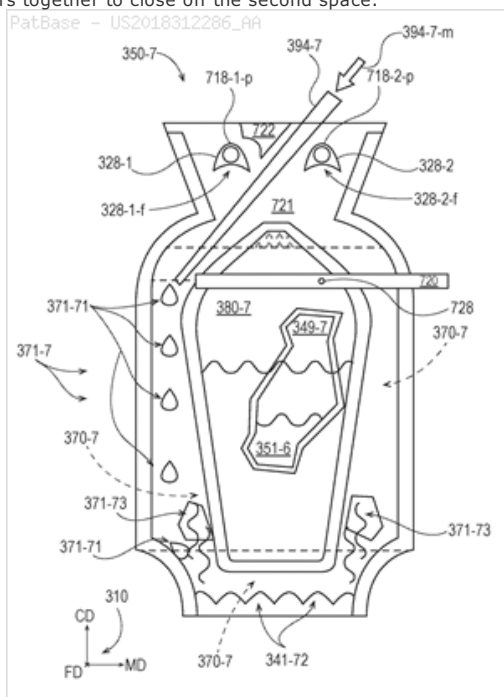
Title: METHODS OF SEALING FLEXIBLE CONTAINERS WITH EXPANSION MATERIALS

Abstract: In methods of making disposable, flexible containers for fluent products, methods of sealing the flexible containers when such containers include expansion materials, are disclosed. The methods include forming a partially completed container blank that has layers of flexible materials. The layered structure includes a first space for a fluent product, and a second space for an expansion material. The methods of sealing the flexible containers include adding an expansion material into the second space and pressing parts of at least some of the layers together to close off the second space.

Classifications:

International (IPC 8-9): B65B1/02 B65B3/02 B65B31/00 B65B39/12 B65B43/06 B65B43/26 B65B51/14 B65B61/00 B65B61/02 B65B61/06 B65B61/18 B65B61/24 B65B9/087 B65B9/093 B65D65/40 B65D75/00 B65D75/26 B65D75/58 (Advanced/Invention)

CPC: B65B1/02 B65B1/02 B65D75/26 B65D65/40 B65B9/087 B65B9/093 B65B31/006 B65B39/12 B65B43/06 B65B43/26 B65B51/146 B65B61/005 B65B61/02 B65B61/06 B65B61/18 B65B3/02 B65D75/008 B65D75/5811



Family:

Publication number	Publication date	Application number	Application date
US2018312286 AA	20181101	US20180953535	20180416
WO18200230 A1	20181101	WO2018US27732	20180416

Priority:

US20170490870P 20170427 US20180953535 20180416

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): BOURGEOIS MARC ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN ; CLARE BENJAMIN JACOB ; LESTER JOSEPH ; LESTER JOSEPH CRAIG ; LEVANDOSKI MARK ; YOU JUN

Agent(s): KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TN TR TT TZ UA UB UG UZ VC VN ZA ZM ZW

Title: LIQUID SUBSTANCE DISPENSER, HAS CONCENTRIC TUBES FITTED WITH EACH OTHER AS INNER AND OUTER TUBES IN SLIDABLE MANNER, AND FOOT AND OPERATING PART EXERTING DOWNWARD FORCE ON FLEXIBLE CONTAINER FOR COMPRESSING SUBSTANCE

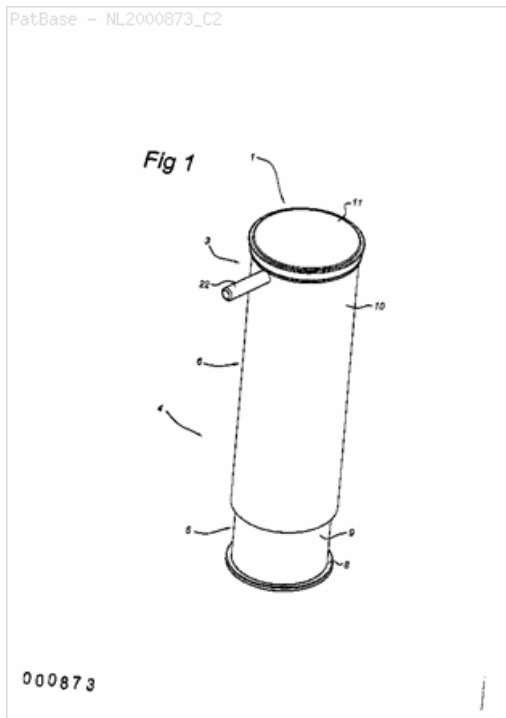
Abstract: The dispenser (1) has a flexible container for holding a liquid substance and surrounding a rigid sheath (4) comprising a foot (5) and an operating part (6) telescopically movable from each other. The foot and the operating part exert a downward force on the flexible container for compressing the substance by reducing the container volume. A flat bottom surface (8) has an upright tube (9) and a closing element (11) with concentric tubes (10), where the concentric tubes are fitted with each other as an inner tube and an outer tube in a slidable manner.

Classifications:

International (IPC 8-9): A47K5/122 B05B11/04 (Advanced/Invention); A47K5/00 B05B11/04 (Core/Invention)

CPC: A47K5/122 B05B11/048

European: A47K5/122 B05B11/04F

**Family:**

Publication number	Publication date	Application number	Application date
NL2000873 C2	20090326	NL20072000873	20070924

Priority:

NL20072000873 20070924

Probable Assignee:

BRABANTIA NEDERLAND BV

Assignee(s): (std):

BRABANTIA NEDERLAND BV

Assignee(s):

BRABANTIA NEDERLAND B V

Inventor(s): (std):

DAAMS RUDOLPHUS CORNELIS HENRICUS

Inventor(s):

RUDOLPHUS CORNELIS HENRICUS DAAMS

31) Family number: 31986127 (WO05040406A1)

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Title: HIGH THROUGHPUT SCREENING OF ANTIBODY LIBRARIES

Abstract: The invention provides methods for screening libraries of cells for the production of ligand binding proteins. In one embodiment, libraries producing Fab antibody fragments are screened by encapsulating a population of cells in a capsule comprising permeable walls, said walls containing a first capture reagent for said ligand binding protein of interests, and contacting said permeable capsule with a ligand specific for said captured ligand binding protein. The resulting protein-ligand complex is detected by, inter alia, rolling circle amplification.

Classifications:

International (IPC 8-9): B01J19/00 B01L3/00 C12N15/10 C12Q1/00 C12Q1/68 C40B30/04 C40B40/02 G01N33/543

G01N33/68 (Advanced/Invention);
C40B40/06 C40B60/14 (Advanced/Non-invention);
C40B30/04 (Core/Invention)

International (IPC 1-7): C12Q1/00

CPC: C40B30/04 B01J19/0046 B01J2219/00351 B01J2219/00367 B01J2219/00416 B01J2219/00479 B01J2219/00481 B01J2219/00522 B01J2219/00585 B01J2219/00596 B01J2219/00605 B01J2219/00612 B01J2219/00619 B01J2219/00621 B01J2219/00626 B01J2219/0063 B01J2219/00637 B01J2219/00659 B01J2219/00677 B01J2219/00686 B01J2219/00689 B01J2219/00702 B01J2219/00722 B01J2219/0074 B01J2219/00743 B01L3/5085 B01L3/50857 B82Y30/00 C12N15/1037 C12N15/1055 C40B40/02 C40B40/06 C40B60/14 G01N33/5432 G01N2500/04

European: B01J19/00C B01L3/5085 B01L3/50857 B82Y30/00 C12N15/10C1 C12N15/10C6 C40B30/04 C40B40/02 G01N33/543D2 G01N33/68A10 L01J219/00C10B16 L01J219/00C10B16B L01J219/00C10B2 L01J219/00C2D L01J219/00C2D14B L01J219/00C2D4B L01J219/00C2J L01J219/00C2J2 L01J219/00C2L7F2 L01J219/00C4B L01J219/00C4H L01J219/00C4L12 L01J219/00C4L2 L01J219/00C4L24 L01J219/00C4L2F L01J219/00C4L2H2H L01J219/00C4L2H4 L01J219/00C4L2J2 L01J219/00C4L2J6 L01J219/00C4L2L4 L01J219/00C6F L01J219/00C6F2 L01J219/00C6P M40B40/06 M40B60/14 S01N500/04

PatBase - WO05040406_A1

WO 2005/040406

1/29

PCT/US2004/01080

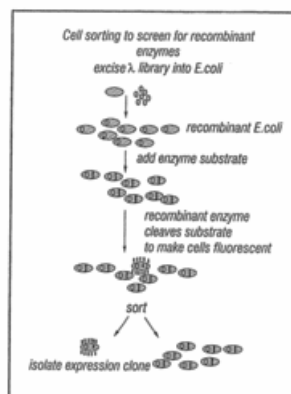


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
WO05040406 A1	20050506	WO2004US34180	20041015

Priority:

US20030688057 20031017

Probable Assignee: DIVERSA CORP**Assignee(s):** (std): ANDRAE STEFAN ; DIVERSA CORP ; FREY GERHARD JOHANN ; KELLER MARTIN ; MOORE JONATHAN ; TOZER EILEEN ; ZHANG FEIYU ; WYBORSKI DENISE**Inventor(s):** (std): ANDRAE STEFAN ; FREY GERHARD JOHANN ; KELLER MARTIN ; MOORE JONATHAN ; TOZER EILEEN ; WYBORSKI DENISE ; ZHANG FEIYU**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**32) Family number: 31986128 (WO05010169A2)**

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Title: HIGH THROUGHPUT OR CAPILLARY-BASED SCREENING FOR A BIOACTIVITY OR BIOMOLECULE

Abstract: The invention provides systems and methods for maintaining and allowing a cell from a mixed population of uncultivated cells to be maintained, proliferate and grow, comprising encapsulating in a microenvironment at least a single cell from the population; placing the encapsulated cell in a growth column; and incubating the encapsulated cell in the growth column under conditions allowing the encapsulated cell to survive and be maintained, thereby isolating and maintaining the cell. The invention also provides systems and methods for identifying a biomolecule of interest from a population of cells, comprising: encapsulating at least one cell from a population in a microenvironment; placing the microenvironment comprising at least one cell in a growth column; incubating the microenvironment in the growth column under conditions allowing the encapsulated cell to survive and be maintained, thereby isolating and maintaining the cell; isolating said cell comprising the and identifying a biomolecule interest from said encapsulated cell.

Classifications:

International (IPC 8-9): A61P11/00 A61P31/00 A61P35/00 A61P37/02 B01J19/00 B01L3/00 C12N1/15 C12N1/19 C12N1/21 C12N15/10 C12N15/12 C12N5/02 C12N5/08 C12Q1/02 C12Q1/68 C40B40/02 G01N33/50 G01N33/569 (Advanced/Invention); C40B40/06 C40B60/14 (Advanced/Non-invention); C12N (Subclass/Invention)

International (IPC 1-7): C12N

CPC: G01N33/569 B01J19/0046 B01J2219/00351 B01J2219/00367 B01J2219/00416 B01J2219/00479 B01J2219/00481 B01J2219/00522 B01J2219/00585 B01J2219/00596 B01J2219/00605 B01J2219/0061 B01J2219/00612 B01J2219/00619 B01J2219/00621 B01J2219/00626 B01J2219/00637 B01J2219/00644 B01J2219/00659 B01J2219/00677 B01J2219/00686 B01J2219/00689 B01J2219/00702 B01J2219/00722 B01J2219/0074 B01J2219/00743 B01L3/5085 B01L3/50857 B82Y30/00 C12N15/1037 C12N15/1055 C12Q1/02 C40B40/02 C40B40/06 C40B60/14 G01N33/5005

European: B01J19/00C B01L3/5085 B01L3/50857 B82Y30/00 C12N15/10C1 C12N15/10C6 C12Q1/02 C40B40/02 G01N33/50D G01N33/569 L01J219/00C10B16 L01J219/00C10B16B L01J219/00C10B2 L01J219/00C2D L01J219/00C2D14B L01J219/00C2D4B L01J219/00C2J L01J219/00C2J2 L01J219/00C2L7F2 L01J219/00C4B L01J219/00C4H L01J219/00C4L12 L01J219/00C4L2 L01J219/00C4L24 L01J219/00C4L2D L01J219/00C4L2F L01J219/00C4L2H2H L01J219/00C4L2H4 L01J219/00C4L2J2 L01J219/00C4L2L4 L01J219/00C4L3D L01J219/00C6F L01J219/00C6F2 L01J219/00C6P L01L3/50857 M40B40/06 M40B60/14

PatBase - WO05010169_A2

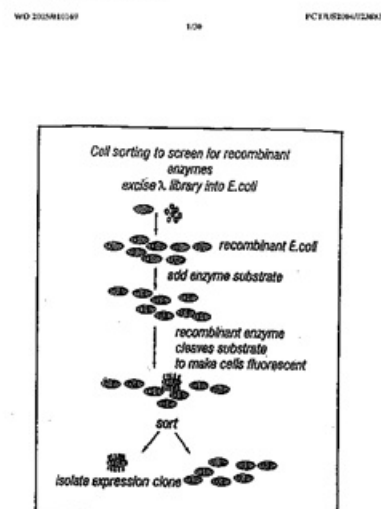


FIGURE 1

Family:

Publication number	Publication date	Application number	Application date
WO05010169 A2	20050203	WO2004US23883	20040723
WO05010169 A3	20090430	WO2004US23883	20040723

Priority:

US20030626477 20030723

Probable Assignee: DIVERSA CORP**Assignee(s):** (std): DIVERSA CORP ; KELLER MARTIN ; ZENGLER KARSTEN**Inventor(s):** (std): KELLER MARTIN ; ZENGLER KARSTEN**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**33) Family number: 3685132 (EP0152735A1)**

© PatBase

Title: Spender actuated by direct current by way of a capacitive proximity switch.

Abstract: A spender for goods in liquid or paste form which can be actuated by direct voltage by means of a capacitive proximity switch 67 has a sensor circuit with two oscillators 79, 80 that essentially oscillate synchronously in the rest position. The oscillation behaviour of at least one of the oscillators 79, 80 can be altered by a capacitance change which can be sensed by the proximity switch 67. A signal triggering spending is generated by a given oscillation difference of the oscillators 79, 80. The effect of long-term capacitance changes, that is to say ones that last longer than the triggering operation and are sensed by the capacitive proximity switch 67, are eliminated in that a control device is provided which corrects the oscillation behaviour by re-establishing the synchronisation. The control device has a mixer 81, to which the oscillator output signals having an unequal voltage are fed.

Classifications:

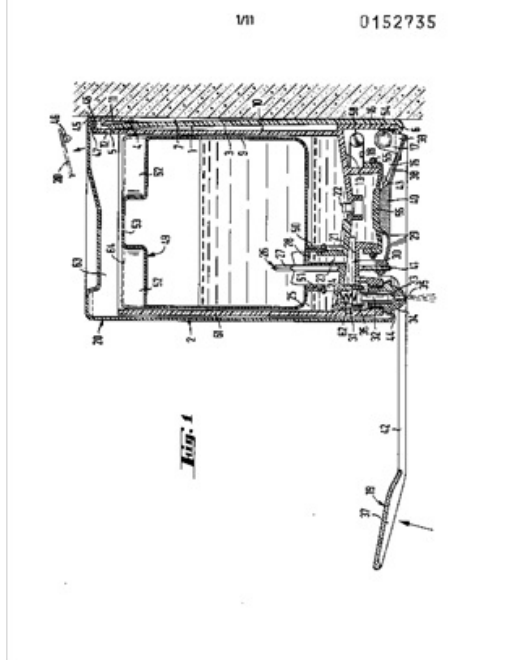
International (IPC 8-9): A47K5/12 H03K17/955 (Advanced/Invention)

International (IPC 1-7): A47K5/12 B67D5/44 H03K17/955

CPC: A47K5/1217 H03K17/955 H03K2017/9606

European: A47K5/12E H03K17/955 T03K17/96A1A

PatBase - EP0152735_R1



Family:

Publication number	Publication date	Application number	Application date
DE3400575 A1	19850718	DE19843400575	19840110
EP0152735 A1	19850828	EP19850100081	19850104

Priority:

DE19843400575 19840110

Probable Assignee: FELDMUEHLE AG

Assignee(s): (std): FELDMUEHLE AG

Assignee(s): FELDMUEHLE AKTIENGESELLSCHAFT

Inventor(s): (std): FELDMUEHLE AKTIENGESELLSCHAFT

Inventor(s): FELDMUEHLE AG ; VERZICHT DES ERFINDERS AUF NENNUNG

Designated states: AT BE CH DE FR GB IT LI LU NL SE

34) Family number: 19168136 (US4349131A)

© PatBase

Title: APPARATUS FOR DOSING AND FORMING SOAP FOAM

Abstract: An apparatus for forming lather or soap foam for washing and/or shaving purposes comprises an actuation lever which simultaneously serves to drive a piston, a liquid soap-dosing pump and a membrane pump for generating compressed air. A perforated wall of a conduit or line enables blowing the compressed air into a dosed quantity of liquid soap located within a mixing chamber, to thereby form a coarse bubble lather or soap foam which subsequently is blown through a porous body, homogenized and compacted. Different embodiments of the apparatus can be realized and it is particularly suitable for use as a foot actuated structure and for producing hot lather for shaving. A preferred construction contains an intermittently operated heater for preheating the compressed air, to thereby accomplish a particularly effective generation of hot lather. The apparatus has the advantage of increased economy owing to its reduced consumption of liquid soap and can be faultlessly hygienically operated and is especially environmentally protective.

Classifications:

International (IPC 8-9): A45D27/02 A45D27/10 A47K5/14

B05B11/00 B05B7/00 (Advanced/Invention);

A45D27/00 A47K5/00 B05B11/00 B05B7/00 (Core/Invention)

International (IPC 1-7): A45D27/02 A45D27/10 A47K5/122

A47K5/14 A47K5/16 B67D5/42 B67D5/54 B67D5/62

CPC: B05B11/0002 B05B11/3087 A45D27/10 A47K5/14 B05B7/0037

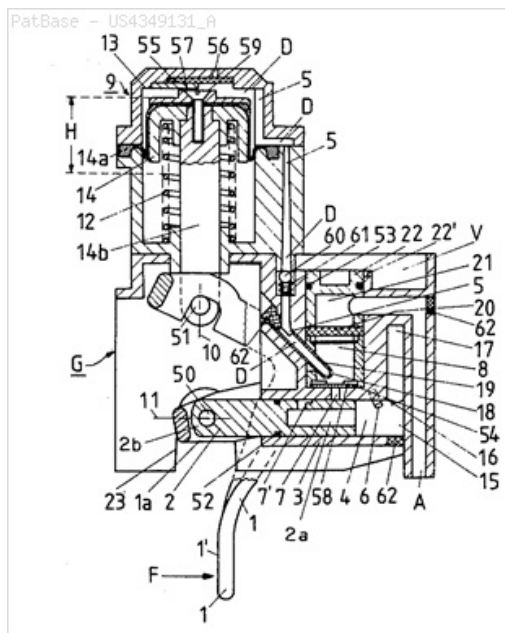
European: A45D27/10 A47K5/14 B05B11/00E B05B11/30L

B05B7/00C1A1

US: 222/135 222/146.5 222/179 222/185 222/189 222/190 222/255

222/276 222/383 222/383.1 239/135 239/343 239/350 239/370

417/199.1 417/199R



Family:

Publication number	Publication date	Application number	Application date
AT11727 E	19850215	AT19820810465T	19821102
AT6576 E	19840315	AT19800810139T	19800428
BR8206517 A	19830927	BR19820006517	19821110
CA1114786 A1	19811222	CA19800350061	19800417
CH636761 A	19830630	CH19790004367	19790510
DE3066928 D1	19840419	DE19803066928	19800428
DE3262348 D1	19850328	DE19823262348	19821102
DE8012672 U1	19800821	DE19800012672U	19800509
EP0019582 A1	19801126	EP19800810139	19800428
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EP0079853 A2	19830525	EP19820810465	19821102
EP0079853 A3	19830622	EP19820810465	19821102
EP0079853 B1	19850213	EP19820810465	19821102
HK13090 A	19900223	HK19900000130	19900215
HK85989 A	19891103	HK19890000859	19891026
JP1586784 C3	19901119	JP19820201253	19821118
JP2009803 B4	19900305	JP19820201253	19821118
JP58092331 A2	19830601	JP19820201253	19821118
MY8600183 A	19861231	MY19860000183	19861230
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SG8590707 A	19870327	SG19850090707	19850924
US4349131 A	19820914	US19800142003	19800421
US4477000 A	19841016	US19820344541	19820201

Priority:

CH19790004367 19790510	CA19800350061 19800417	US19800142003 19800421
EP19800810139 19800428	CH19810007399 19811118	EP19820810465 19821102

Probable Assignee: EUROPTOOL TRUST

Assignee(s): (std): CWS AG ; EUROPTOOL TRUST

Assignee(s): EUROPTOOL TRUST A CORP ; EUROPTOOL TRUST A CORP OF LIECHTENSTEIN ; TSUEE UEE ESU AG ; EUROPTOOL TRUST VADUZ ; ARABIAN SANDRO

Inventor(s): (std): ARABIAN SANDRO ; SANDRO ARABIAN ; SANDORO ARABIAN

Agent(s): JOHNSON AND HICKS

Designated states: AT BE CH DE FR GB IT LI LU NL SE

35) Family number: 3418137 (EP0103765A2)

© PatBase

Title: Electrical dispenser.

Abstract: 1. Electrically operable dispenser with non-contact dispensing for liquid or pasty materials, such as disinfectants, cleaning agents, soaps and ointments, which consists essentially of a dispensing container for the materials to be dispensed, a pump (29) which is connected to the dispensing container (2) and is operated by means of an electromagnet (65) in the form of a solenoid, and an inlet valve and an outlet valve (22, 31) for the materials to be dispensed, characterized in that the pump (29) is a diaphragm pump and the solenoid has a driving force of from 1 to 100 N.

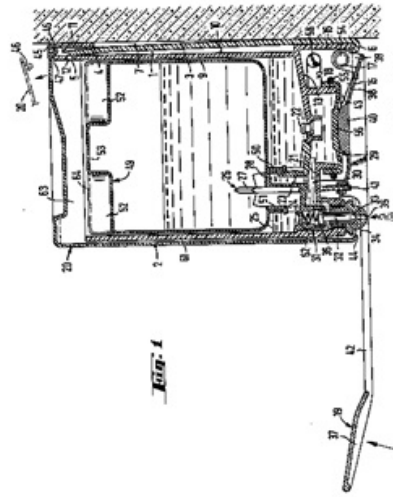
Classifications:

International (IPC 8-9): A47K5/12 (Advanced/Invention); A47K5/00 (Core/Invention)

International (IPC 1-7): A47K5/12 B67D5/44 B67D5/60

CPC: A47K5/1217

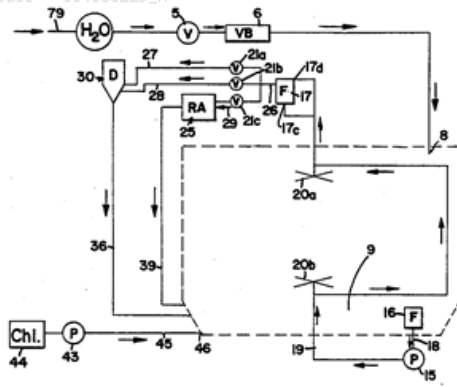
European: A47K5/12E



Publication number	Publication date	Application number	Application date
AT25577 E	19870315	AT19830108237T	19830820
DE3231842 A1	19840301	DE19823231842	19820826
DE3231842 C2	19840614	DE19823231842	19820826
DE3249421 A1	19840614	DE19823249421	19820826
DE3249421 C2	19850515	DE19823249421	19820826
DE3369903 D1	19870409	DE19833369903	19830820
EP0103765 A2	19840328	EP19830108237	19830820
EP0103765 A3	19850123	EP19830108237	19830820
EP0103765 B1	19870304	EP19830108237	19830820

Designated states: AT BE CH DE FR GB IT LI LU NL SE

US: 134/101 134/103.1 134/104.4 134/111 134/93 134/95 134/95.1
134/95.3 137/268 222/165 222/185 222/190 222/52 222/67 422/264



Family:

Publication number	Publication date	Application number	Application date
AU198812678 A1	19881103	AU19880012678	19880307
AU599463 B2	19900719	AU19880012678	19880307
CA1322931 A1	19931012	CA19880565587	19880429
CA1331947 A1	19940913	CA19930616682	19930630
CA1331947 A2	19940913	CA19880616682	19880429
DE3854729 D1	19960111	DE19883854729	19880422
DE3854729 T2	19960725	DE19883854729T	19880422
EP0288918 A2	19881102	EP19880106459	19880422
EP0288918 A3	19911113	EP19880106459	19880422
EP0288918 B1	19951129	EP19880106459	19880422
JP2603294 B2	19970423	JP19880107495	19880428
JP63286124 A2	19881122	JP19880107495	19880428
KR19880012196 A	19881126	KR19880005011	19880430
KR900008982 B1	19901217	KR19880005011	19880430
NZ223769 A	19900327	NZ19880223769	19880307
US4836229 A	19890606	US19880290885	19881222
US4938240 A	19900703	US19890341927	19890421

Priority:

US19870044434 19870430 CA19880565587 19880429 CA19880616682 19880429
US19880290885 19881222 US19890341927 19890421 CA19930616682 19930630

Probable Assignee: ECOLAB INC**Assignee(s):** (std): ECOLAB INC**Assignee(s):** ECOLAB INC ECOLAB CENTER ST PAUL MN 55102 A CORP O ; ECOLAB INC ECOLAB CENTER ST PAUL MN 55102 A CORP OF DE ; ECOLAB INC ST PAUL MINN US ; LAKHAN HARESH CHAND ; SWITALA LAWRENCE WILLIAM ; ASHTON KIM J**Inventor(s):** (std): SWITALA LAWRENCE WILLIAM ; SWITALA LAWRENCE W ; ROORENSU DABURIYU SUUITSUTARA ; LAKHAN HARESH CHAND ; LAKHAN HARESH C ; LAKHAN HARESH ; KIMU JIEI ATSUSHIYUTON ; HARESHIYU SHII RAKUHAN ; ASHTON KIM J**Inventor(s):** HARESH CHAND LAKHAN ; HARESH C LAKHAN ; KIM J ASHTON ; LAWRENCE WILLIAM SWITALA ; LAWRENCE W SWITALA**Agent(s):** GRIFFITH HACK; CASSAN MACLEAN**Designated states:** BE DE FR GB IT SE**37) Family number: 34894143 (WO07081519A2)**

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Title: GENIUS ADAPTIVE DESIGN

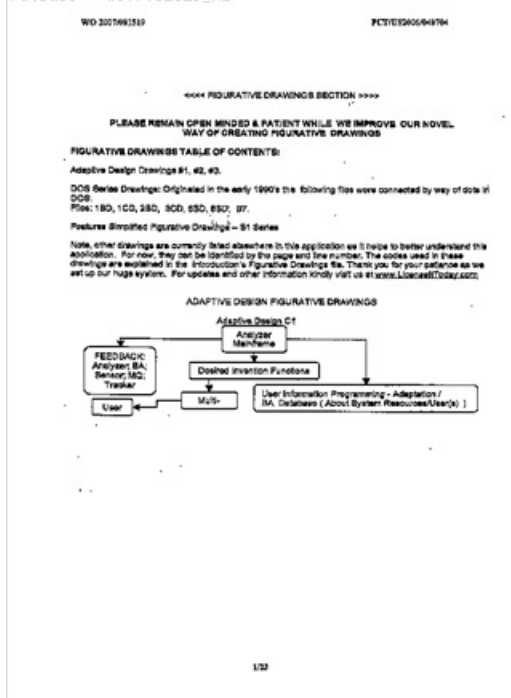
Abstract: Explore interesting inventions inside, conceived by our genius idea generator. Discover history's most effective method in conceiving novel uses for existing electronic technology. License huge domains of intellectual property from the invention directory our system helped develop. The searcher can find one of our interesting inventions in this patent application via our LicenseItToday.com, etc. Call our California Headquarters 1-707-428-5000. View invention ideas, plus 100+ variations adapted for end user target markets. LicenseItToday.com fills out exclusive international license agreements valid up to December 2026. It saves time and money creative LP. over any other documented creative thinking process. Licensees seek outputted patents using our or their pat attorneys. Royalties can start when profits begin. Or you can buy the affordable I.P. rights. Proof is in tryingit out. Discover amazing inventions inside today.

Classifications:**International (IPC 8-9):** E06B7/32 G06F17/00 G06F17/30 G06Q

G06Q10/00 G06Q30/00 G06Q50/00 (Advanced/Invention)

International (IPC 1-7): G06Q30/00**CPC:** G06F8/70 G06F9/445 G06Q10/10 G06F16/00 G06Q30/0601**European:** G06Q10/10

PatBase - WO07081519_A2

**Family:**

Publication number	Publication date	Application number	Application date
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AP200804559 A0	20080831	AP20080004559	20061219
AU2006335151 AA	20070719	AU20060335151	20061219
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CA2635954 AA	20080630	CA20062635954	20061219
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EP2059899 A2	20090520	EP20060849217	20061219
EP2059899 A4	20120704	EP20060849217	20061219
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JP2009522654 T2	20090611	JP20080548620T	20061219
KR20080112193 A	20081224	KR20087018774	20061219
KR20130124572 A	20131114	KR20137024611	20061219
MX2008008625 A1	20090107	MX20080008625	20061219
NZ570109 A	20110826	NZ20060570109	20061219
WO07081519 A2	20070719	WO2006US48704	20061219
WO07081519 C1	20080612	WO2006US48704	20061219

Priority:

US20050755291P 20051230 US20060756607P 20060105 US20060778313P 20060301
US20060783018P 20060315 US20060786906P 20060328 US20060852794P 20061018
AU20060335151 20061219 WO2006US48704 20061219 AU20130200386 20130125

Probable Assignee: INNOVATION INST LLC

Assignee(s): (std): CABINALLA LINDA ; INNOVATION INST LLC ; KAYS STEVEN ; WORLD CHARITY DIVISION LICENSE ; STEVEN KAYS

Assignee(s): WORLD CHARITY DIVISION LICENSELTTODAYCOM LLC ; WORLD CHARITY DIVISION LICENSELTTODAY COM LLC ; INNOVATION INSTITUTE LLC

Inventor(s): (std): CABINALLA LINDA ; KAYS STEVEN

Inventor(s): STEVEN KAYS

Agent(s): SHELSTON IP; KAYS STEVEN; INNOVATION INSTITUTEION LLC; BORDEN LADNER GERVAIS LLP; MAURICIO JARAMILLO CAMPUZANO; BEETZ AND PARTNER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

38) Family number: 32323144 (US2005214386A)

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Title: METHODS FOR DEACTIVATING ALLERGENS AND PREVENTING DISEASE

Abstract: This invention relates to articles of manufacture containing liquid compositions of hypohalous acid or hypohalous acid salt for deactivating allergens and preventing diseases on hard surfaces, soft surfaces and in the air. The articles of manufacture contain usage instructions with health claims. This invention also includes methods of instructing the public and promoting the use of these compositions.

Classifications:

International (IPC 8-9): A01M13/00 A01N25/00 A01N25/02 A01N25/22 A01N59/00 A01N59/08 A01P1/00 A01P3/00 A23L3/358 A61B17/06 A61K33/00 A61K33/14 A61K33/20 A61K47/02 A61K47/12 A61K47/20 A61K49/00 A61K7/20 A61K7/36 A61K7/50 A61K9/08 A61L2/18 A61L2/20 A61L9/00 A61L9/01 A61L9/015 A61P17/00 A61P31/02 A62B7/08 A62D3/00 B01J20/16 B09B3/00 B23P9/00 B29D22/00 B29D23/00 B31B45/00 B32B1/08 B32B15/01 B65D25/08 C01B11/04 C01B11/06 C02F1/50 C02F1/76 C09K3/00 C11D1/00 C11D3/395 C11D7/54 C25D5/10 C25D5/12 G06Q99/00 H01G4/228 H01L23/495 (Advanced/Invention); C09K3/00 (Advanced/Non-invention);

A01N25/02 A01N25/22 A01N59/00 A01N59/08 A01P1/00 A01P3/00 A23L3/3454 A61K33/00 A61K33/14 A61K33/20 A61K47/02 A61K47/12 A61K47/20 A61K49/00 A61K9/08 A61L2/18 A61L9/01 A61P17/00 A61P31/00 B01J20/10 B23P9/00 B29D22/00 B29D23/00 B31B45/00 B32B1/00 B32B15/01 C01B11/00 C02F1/50 C02F1/76 C09K3/00 C11D1/00 C11D3/395 C11D7/54 C25D5/10 G06Q99/00 H01G4/228 H01L23/48 (Core/Invention); C09K3/00 (Core/Non-invention)

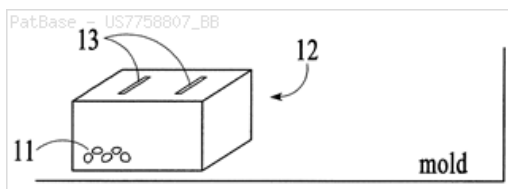
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US: 206/219 206/63.3 222/321.7 222/321.9 222/340 222/383.1 222/385 252/186.36 252/187.1 252/187.23 257/E23.054 257/E23.054S 422/1 422/124 422/184.1 422/184.1005 422/29 422/292 422/292S 422/29S 422/305 422/305S 422/37 422/37P 422/37S 422/5 422/5P 423/473 423/473P 424/1.11 424/1.65 424/1.85 424/40 424/405 424/53 424/661 424/661P 424/67 424/76.1 424/9.1 424/9.2 428/34.1 428/35.7 428/687 428/687P 43/124 43/125 502/407 510/143 510/367 510/379 510/382 705/1 705/1.1 705/1.100P

Family:

Publication number	Publication date	Application number	Application date
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AU2005227888 AA	20051013	AU20050227888	20050311
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JP2007530731 T2	20071101	JP20070504988T	20050311
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US2005214386 AA	20050929	US20040806522	20040323
US2005216291 AA	20050929	US20040870096	20040616
US2005221113 AA	20051006	US20050096135	20050331
US2005232847 AA	20051020	US20040828571	20040420



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US2005233900 AA	20051020	US20050111012	20050421
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US2007217946 AA	20070920	US20070741401	20070427
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US2009175958 AA	20090709	US20090407489	20090319
US2010009889 AA	20100114	US20090550643	20090831
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Priority:

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US20090550643 20090831		

Probable Assignee: CLOROX CO

Assignee(s): (std): ARNT LACHELLE ; BITOWFT BRUCE K ; BROMBERG STEVEN ; BROMBERG STEVEN E ; CHIANG CHIH ; CLOROX CO ; FRIEDMAN VICKI ; FUNG JENNIFER ; JULIAN JENNIFER C ; KENNEDY TIMOTHY ; DE GOPEGUI RICARDO R ; CRANE ELIZABETH ; CUMBERLAND SCOTT ; HUITT DANIEL A ; MELLETT DIANE ; EL SAYED MAHA Y ; DANI NIKHIL ; FOLAND LAFAYETTE D ; SHAHEEN ELIAS A ; WIESMAN JULIE ; VIEIRA KENNETH ; NGUYEN ANDREAS ; SMITH WILLIAM L ; VIEIRA KENNETH L ; OCHOMOGO MARIA G ; ROBLES JORGE

Assignee(s): THE CLOROX COMPANY ; WELLS FARGO BANK NATIONAL ASSOCIATION AS ; SHAHEEN ELAIS A

Inventor(s): (std): FUNG SEPULVEDA JENNIFER ; JULIAN JENNIFER J ; WISEMAN JULIE ; ROBLES JORGE ; FOLAND LAFAYETTE D ; EL SAYED MAHA Y ; DANI NIKHIL ; ARNT LACHELLE ; VIEIRA KENNETH L ; SMITH WILLIAM L ; NGUYEN ANDREAS ; MELLETT DIANE ; HUITT DANIEL A ; CUMBERLAND SCOTT ; CRANE ELIZABETH ; CHIANG CHIH ; VIEIRA KENNETH ; SHAHEEN ELIAS A ; SHAHEEN ELAIS A ; JULIAN JENNIFER C ; FUNG JENNIFER ; FRIEDMAN VICKI ; BROMBERG STEVEN ; RUIZ DE GOPEGUI RICARDO ; OCHOMOGO MARIA G ; SHAHEEN ELIAS ; KENNEDY TIMOTHY ; DE GOPEGUI RICARDO R ; BROMBERG STEVEN E ; BITOWFT BRUCE K ; WIESMAN JULIE

Inventor(s): WILLIAM L SMITH ; SMITH WILLIAM ; STEVEN E BROMBERG ; JULIAN JENNIFER ; OCHOMOGO MARIA ; KENNETH VIEIRA ; HUITT DANIEL ; BITOWFT BRUCE ; DE GOPEGUI RICARDO ; EL SAYED MAHA ; ELAIS A SHAHEEN ; FOLAND LAFAYETTE

Agent(s): GRIFFITH HACK ; RICHES MCKENZIE AND HERBERT LLP ; THE CLOROX COMPANY ; CLOROX CO ; GOEL ALOK ; ALOK ; PETERSON DAVID ; DAVID ; STACY H ; GOEL ALOK ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

39) Family number: 34966147 (US2008277426A)

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Title: SQUEEZE FOAMER

Abstract: The invention relates to a dispensing device for dispensing a foam, comprising a manually compressible container (2) for storing a liquid and air, which container comprises an opening (3), a rigid housing (4, 5) to be fitted in or on the opening, the housing comprising an air passage (11, 12) and a liquid passage (9), which are in communication with a dispensing passage (14) which ends in a dispensing opening (8), and a valve body (6) which, in a rest position, covers a mouth of the liquid passage and a mouth of the air passage (10) in a sealing manner in order to prevent a flow from the liquid passage and the air passage to the dispensing passage, and which, during dispensing, opens the mouth of the liquid passage and the mouth of the air passage in order to allow mixing of air and liquid to take place in the dispensing passage. The invention is characterized by the fact that the mouth of the air passage and the mouth of the liquid passage are substantially annular and are arranged substantially concentrically with respect to one another.

Classifications:

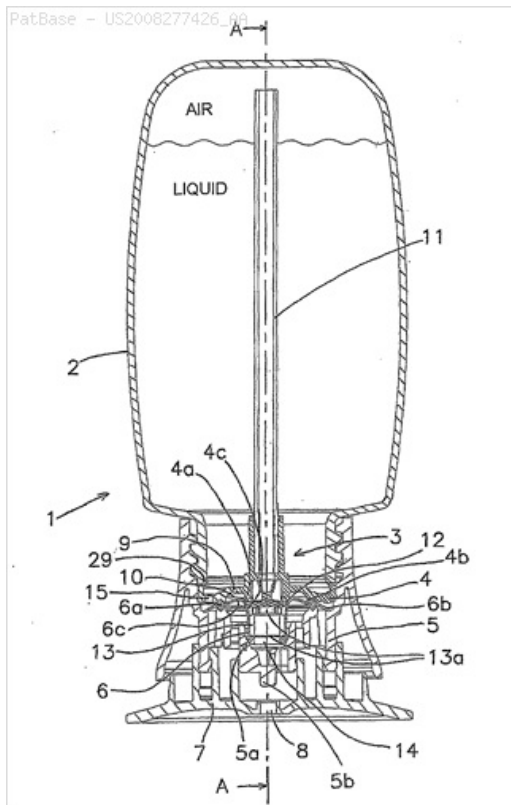
International (IPC 8-9): A47K5/12 A47K5/122 A47K5/14 B01F3/04 B05B11/04 B05B11/06 B05B7/00 B05B7/28 B05C17/005 B65D37/00 B65D47/06 B65D47/20 B65D83/00 B65D83/40 B65D83/76 B67D3/02 B67D5/58 B67D7/74 B67D7/76 (Advanced/Invention); B05B11/04 B05B11/06 B05B7/00 B05C17/005 B65D37/00 B65D47/04 B65D47/06 B65D83/00 B65D83/40 B67D5/58 B67D7/76 (Core/Invention); B67D5/58 (Core/Non-invention)

International (IPC 1-7): B05B 11/04 B05B11/04 B05B7/00

CPC: B05B7/0025 B05B7/0037 B05B11/043 A47K5/14 B05B11/0032 B05B11/047

European: A47K5/14 B05B11/04D1 B05B11/04E B05B7/00C1 B05B7/00C1A1 L05B11/00B3F

US: 222/145.5 222/190 222/209 222/211 222/212 222/212S 222/464.1

**Family:**

Publication number	Publication date	Application number	Application date
AT487542 E	20101115	AT20070860868T	20071210
BRPI0707175 A2	20110426	BR2007PI07175	20070123
BRPI0719400 A2	20140211	BR2007PI19400	20071210
BRPI0719400 B1	20190306	BR2007PI19400	20071210
CA2640063 AA	20080723	CA20072640063	20070123
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CA2670090 C	20170704	CA20072670090	20071210
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CN101588874 B	20130410	CN200780045409	20071210
DE602007010509 D1	20101223	DE200760010509T	20071210
EP1976642 A2	20081008	EP20070709141	20070123
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EP2094394 A2	20090902	EP20070860868	20071210
EP2094394 B1	20101110	EP20070860868	20071210
ES2687755 T3	20181029	ES20070709141T	20070123
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JP5143749 B2	20130213	JP20080552250T	20070123
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KR101280853 B1	20130703	KR20087020659	20070123
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KR20080091252 A	20081009	KR20087020659	20070123
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MX2009006152 A1	20090619	MX20090006152	20071210
NL1030994 C2	20070726	NL20061030994	20060124
NL1033031 C2	20080612	NL20061033031	20061211
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RU2428262 C2	20110910	RU20080134482	20070123
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TH59142 B	20171123	TH20071006263	20071207
TH67626 B	20190122	TH20071000282	20070123
TH90742 A	20080729	TH20071000282	20070123
TW200734058 A	20070916	TW20070102521	20070123
TW200838793 A	20081001	TW20070144821	20071126
TWI377093 B	20121121	TW20070102521	20070123
TWI412486 B	20131021	TW20070144821	20071126
US2008277426 AA	20081113	US20070160459	20070123

US20100901024 AA	20100103	US20070518710	20070120
US8360282 BB	20130129	US20070518710	20071210
WO07086730 A2	20070802	WO2007NL00022	20070123
WO07086730 A3	20070927	WO2007NL00022	20070123
WO08072949 A2	20080619	WO2007NL00304	20071210
WO08072949 A3	20081030	WO2007NL00304	20071210
WO08072949 C1	20080912	WO2007NL00304	20071210

Priority:

NL20061030994 20060124 NL20061033031 20061211 EP20070709141 20070123
WO2007NL00022 20070123 WO2007NL00304 20071210

Probable Assignee: REXAM AIRSPRAY NV

Assignee(s): (std): AIRSPRAY N V ; AIRSPRAY N V TE ALKMAAR ; AIRSPRAY NV ; HEIJDEN EDGAR IVO MARIA VAN D ; REXAM AIRSPRAY N V ; REXAM AIRSPRAY NV ; HEIJDEN EDGAR IVO MARI VAN D ; VAN DER HEIJDEN EDGAR IVO MARI ; VAN DER HEIJDEN EDGAR IVO MARIA ; REXAN AIRSPRAY N V ; RIKSEHM EHJRSREJ N V ; TWIST BEAUTY PACKAGING AIRSPRAY N V

Assignee(s): TWIST BEAUTY PACKAGING AIRSPRAY NV ; REXAM AIRSPRAY NV9, IVOORSTRAATNL-1812 REALKMAARNL ; RIKSEHM EHJRSREJ NV ; REXAM AIRSPRAY N V NL ; AIRSPRAY TE ALKMAAR NV

Inventor(s): (std): HEIJDEN EDGAR VAN D ; KHEJDEN EHDGAR IVO MARIJA VAN D ; MARI DER HEIJDEN EDGAR IVO VAN ; VAN DER HEIJDEN EDGAR IVO MARI ; VAN DER KHEJDEN EHDGAR IVO MARIJA ; VAN DER HEIJDEN EDGAR IVO MARIA ; VAN DE HEIJDEN EDGAR IVO MARIA ; HEIJDEN EDGAR IVO MARIA VAN DER ; HEIJDEN EDGAR IVO MARIA VAN D ; HEIJDEN EDGAR IVO MARI VAN D ; DER HEIJDEN EDGAR IVO MARIA VAN

Inventor(s): HEIJDEN EDGAR IVO MARIA VAN DNL ; EDGAR IVO MARIA VAN DER HEIJDEN ; EDGAR IVO MARIA VAN D HEIJDEN

Agent(s): RIDOUT AND MAYBEE LLP; GEVERS AND ORES; VERMEULEN MARTIJN; ELZABURU SLP ELZABURU SLP; HOFFMANN AND BARON LLP; VERMEULEN M

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

40) Family number: 34966148 (US2008314931A)

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Title: SQUEEZE FOAMER

Abstract: The invention relates to a dispensing device for dispensing a foam, comprising a manually compressible container (2) for storing a liquid and air, which container comprises an opening (3), a rigid housing (4, 5) to be fitted in or on the opening, the housing comprising an air passage (11, 12) and a liquid passage (9), which are in communication with a dispensing passage (14) which ends in a dispensing opening (8), and a valve body (6) which, in a rest position, covers a mouth of the liquid passage and a mouth of the air passage (10) in a sealing manner in order to prevent a flow from the liquid passage and the air passage to the dispensing passage, and which, during dispensing, opens the mouth of the liquid passage and the mouth of the air passage in order to allow mixing of air and liquid to take place in the dispensing passage. The invention is characterized in that the elastic valve body comprises an arcuate section (6c), which arcuate section extends in the mouth of the liquid passage in such a way that, initially, due to the liquid pressure in the liquid passage on the valve body, the arcuate section improves the sealing of the mouth of the liquid passage.

Classifications:

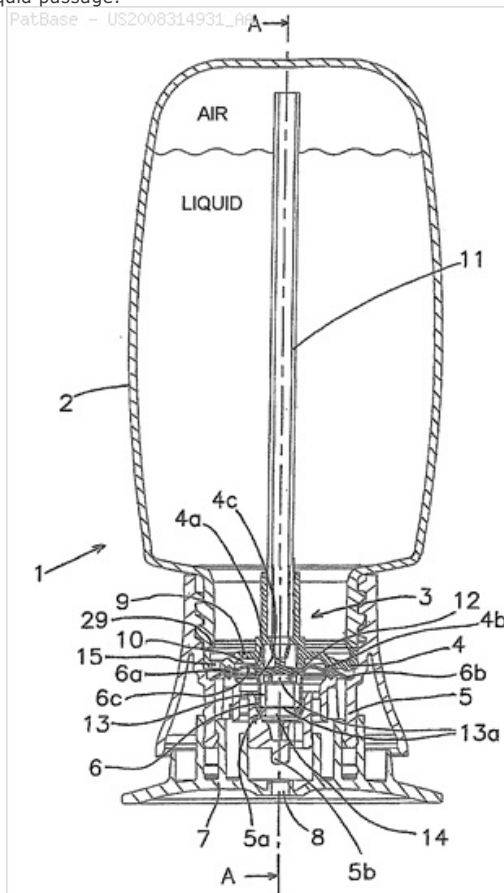
International (IPC 8-9): A47K5/12 A47K5/13 A47K5/14 B01F3/04 B05B11/04 B05B17/00 B05B7/00 B65D25/42 B65D37/00 B65D47/34 B65D83/00 B65D83/76 B67D5/58 B67D7/76 (Advanced/Invention); B05B11/04 B05B7/00 B65D37/00 B65D83/00 B67D5/58 B67D7/76 (Core/Invention)

International (IPC 1-7): B05B11/04 B05B7/00

CPC: A47K5/122 A47K5/14 B05B7/0025 B05B11/043

European: B05B11/04D1 B05B7/00C1

US: 222/190 222/209 222/211



Family:

Publication number	Publication date	Application number	Application date
AT519545 E	20110815	AT20070709142T	20070123
BRPI0707176 A2	20110426	BR2007PI07176	20070123
CA2640065 AA	20080723	CA20072640065	20070123
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JP2009524558 T2	20090702	JP20080552251T	20070123
JP4990294 B2	20120801	JP20080552251T	20070123
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KR20080088634 A	20081002	KR20087020051	20070123
NL1030992 C2	20070726	NL20061030992	20060124
RU2008134478 A	20100227	RU20080134478	20070123
RU2420360 C2	20110610	RU20080134478	20070123
TH67624 B	20190122	TH20071000280	20070123
TH90740 A	20080729	TH20071000280	20070123
TW200738342 A	20071016	TW20070102510	20070123
TWI373377 B	20121001	TW20070102510	20070123
US2008314931 AA	20081225	US20070160457	20070123
US8020732 BB	20110920	US20070160457	20070123
WO07086731 A1	20070802	WO2007NL00023	20070123

Priority:

NL20061030992 20060124 EP20070709142 20070123 WO2007NL00023 20070123

Probable Assignee: REXAM AIRSPRAY NV

Assignee(s): (std): AIRSPRAY N V ; AIRSPRAY NV ; HEIJDEN EDGAR IVO MARI VAN D ; REXAM AIRSPRAY N V ; VAN DER HEIJDEN EDGAR IVO MARI ; REXAN AIRSPRAY N V ; RIKSEHM EHJRSPREJ N V ; REXAM AIRSPRAY NV

Assignee(s): VAN DER HEIJDEN EDGAR IVO MARIA ; REXAN AIRSPRAY NV ; RIKSEHM EHJRSPREJ NV ; HEIJDEN EDGAR IVO MARIA VAN D ; REXAM AIRPRAY N V

Inventor(s): (std): HEIJDEN EDGAR IVO MARI VAN D ; HEIJDEN EDGAR IVO MARIA VAN D ; HEIJDEN EDGAR IVO MARIA VAN DE ; HEIJDEN EDGAR VAN D ; KHEJDEN EHDGAR IVO MARIJA VAN D ; MARI DER HEIJDEN EDGAR IVO VAN ; VAN DER HEIJDEN EDGAR ; VAN DER HEIJDEN EDGAR IVO MARI ; VAN DER HEIJDEN EDGAR IVO MARIA ; VAN DER KHEJDEN EHDGAR IVO MARIJA

Inventor(s): EDGAR IVO MARIA VAN D HEIJDEN ; EDGAR IVO MARIA VAN DER HEIJDEN

Agent(s): RIDOUT AND MAYBEE LLP; RAU SCHNECK AND HUEBNER PATENTANWAELTE RECHTSANWAELTE PARTGMBB; VERMEULEN MARTIJN; HOFFMANN AND BARON LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

41) Family number: 34966149 (US2009001100A)

© PatBase

Title: SQUEEZE FOAMER

Abstract: The invention relates to a dispensing device for dispensing a foam, comprising a manually compressible container (2) for storing a liquid and air, which container comprises an opening (3), a rigid housing to be fitted in or on the opening, the housing comprising an air passage (11) and a liquid passage (9) and a valve body (6) which, in a rest position, covers a mouth of the liquid passage and a mouth of the air passage in a sealing manner (4a, 4c) and which, during dispensing, opens the mouth of the liquid passage and the mouth of the air passage in order to allow mixing of air and liquid to take place in the dispensing passage (13). The invention is characterized in that the housing comprises a first housing part (4) and a second housing part (20), the first and the second housing parts being mountable in several position with respect to each other, the ratio between the amounts of liquid and air to be dispensed upon compressing the container being dependent on the position in which the first and second housing parts are mounted with respect to each other

Classifications:

International (IPC 8-9): B05B7/00 A47K5/12 A47K5/122 A47K5/13 A47K5/14 B01F3/04 B05B1/30 B05B11/04 B05B7/24 B65D25/40 B65D35/28 B65D37/00 B65D47/06 B65D83/00 B67D5/58 B67D7/76 (Advanced/Invention);

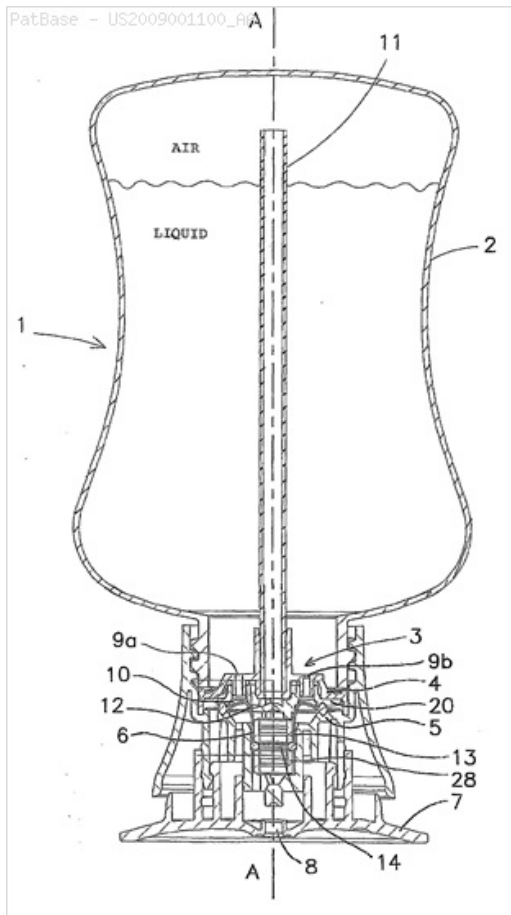
B05B11/04 B05B7/00 B65D37/00 B65D47/06 B65D83/00 B67D5/58 B67D7/76 (Core/Invention)

International (IPC 1-7): B05B11/04 B05B7/00

CPC: A47K5/122 A47K5/14 B05B1/3026 B05B7/0025 B05B7/0037 B05B11/043

European: B05B1/30C B05B11/04D1 B05B7/00C1 B05B7/00C1A1

US: 222/145.5 222/145.6 222/190 222/211

**Family:**

Publication number	Publication date	Application number	Application date
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CA2640067 C	20140401	CA20072640067	20070123
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EP1976644 A1	20081008	EP20070709143	20070123
EP1976644 B1	20120627	EP20070709143	20070123
IN02852KN2008 A	20090206	IN2008KN02852	20080714
JP2009524517 T2	20090702	JP20080552252T	20070123
KR101280906 B1	20130702	KR20087020656	20070123
KR20080099280 A	20081112	KR20087020656	20070123
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TH67625 B	20190122	TH20071000281	20070123
TH90741 A	20080729	TH20071000281	20070123
TW200803989 A	20080116	TW20070102506	20070123
TWI376271 B	20121111	TW20070102506	20070123
US2009001100 AA	20090101	US20070160463	20070123
US8042710 BB	20111025	US20070160463	20070123
WO07086732 A1	20070802	WO2007NL00024	20070123

Priority:

NL20061030993 20060124 EP20070709143 20070123 WO2007NL00024 20070123

Probable Assignee: REXAM AIRSPRAY NV

Assignee(s): (std): AIRSPRAY N V ; AIRSPRAY NV ; HEIJDEN EDGAR IVO MARI VAN D ; REXAM AIRSPRAY N V ; VAN DER HEIJDEN EDGAR IVO MARI ; REXAM AIRSPRAY N V ; RIKSEHM EHJRSPREJ N V ; REXAM AIRSPRAY NV

Assignee(s): VAN DER HEIJDEN EDGAR IVO MARIA ; REXAM AIRSPRAY NV ; RIKSEHM EHJRSPREJ NV ; HEIJDEN EDGAR IVO MARIA VAN D ; REXAM AIRPRAY N V

Inventor(s): (std): HEIJDEN EDGAR IVO MARI VAN D ; HEIJDEN EDGAR IVO MARIA VAN DE ; KHEJDEN EHDGAR IVO MARIJA VAN D ; MARI DER HEIJDEN EDGAR IVO VAN ; VAN DER HEIJDEN EDGAR IVO MARI ; VAN DER HEIJDEN EDGAR IVO MARIA ; VAN DER KHEJDEN EHDGAR IVO MARIJA ; HEIJDEN EDGAR IVO MARIA VAN D

Inventor(s): HEIJDEN EDGAR VAN D ; EDGAR IVO MARIA VAN D HEIJDEN ; EDGAR IVO MARIA VAN DER HEIJDEN

Agent(s): RIDOUT AND MAYBEE LLP; VERMEULEN MARTIJN; HOFFMANN AND BARON LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: RESUABLE DISPENSER FOR PASTE, LOTION AND CREAM-LIKE MATERIALS

Abstract: A dispenser for use with a container of lotion or paste-like product to be dispensed. The dispenser comprises a body having an inlet port connectable to the container and a dispensing spout with a closure cap. The dispenser has a plunger assembly manually shiftable between an unactuated position and an actuated position and a piston shiftable by the plunger assembly between an unactuated position and an actuated position. Both the plunger assembly and the piston are biased toward their unactuated position. As the plunger assembly and piston are shifted toward their actuated positions, the spout cap is opened and the piston causes product to be dispensed through the spout. When the plunger assembly is released and it and the piston return to their unactuated positions, a suck back vacuum withdraws product back into said spout, a vacuum created by the piston draws product from the container into the dispenser and the spout is closed by the cap. The dispenser can be used with a collapsible container or a rigid, uncollapsible container vented by a port provided in the dispenser.

Classifications:

International (IPC 8-9): B05B11/00 B65D83/00 (Advanced/Invention); B05B11/00 B65D83/00 (Core/Invention)

International (IPC 1-7): B65D35/28

CPC: B05B11/00412 B05B11/00416 B05B11/3053 B05B11/3001 B05B11/3074 B05B11/3097 B65D83/0033 B65D83/0055

European: B05B11/00B5A2 B05B11/00B5A4 B05B11/00P3 B05B11/00P9H2 B05B11/30C B05B11/30H3B B05B11/30H8B

B05B11/30T B65D83/00A4 B65D83/00B

US: 222/256 222/309 222/321.3 222/95

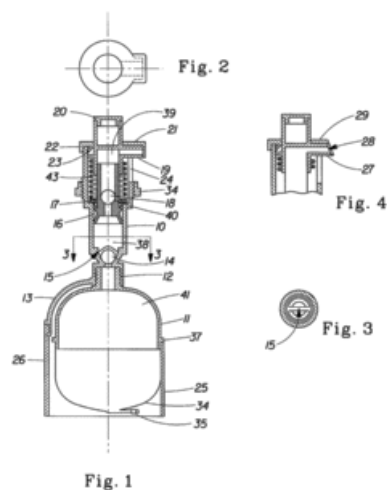
PatBase - US5842605_A

U.S. Patent

Dec. 1, 1998

Sheet 1 of 17

5,842,605



Family:

Publication number	Publication date	Application number	Application date
US5842605 A	19981201	US19960687160	19960724

Priority:

US19960687160 19960724

Probable Assignee:

LEHMKUHL ROBERT A

Assignee(s):

LEHMKUHL ROBERT A

Inventor(s): (std):

LEHMKUHL ROBERT A

Title: METHODS AND SYSTEMS FOR ENHANCING THE EFFECTIVENESS OF CLEANING COMPOSITIONS

Abstract: The present invention provides inexpensive, safe and reliable methods and systems for enhancing the effectiveness of aqueous or non-aqueous, concentrated or non-concentrated, cleaning compositions, such as concentrated cleaning liquids, by "energizing" all, or a portion, of the water that is employed in the compositions, and/or in diluted aqueous or non-aqueous compositions, and/or of the compositions, and to enhanced cleaning compositions that are safe for use by human beings.

Classifications:

International (IPC 8-9): A61Q11/00 B08B3/12

C02F1/48 (Advanced/Invention);

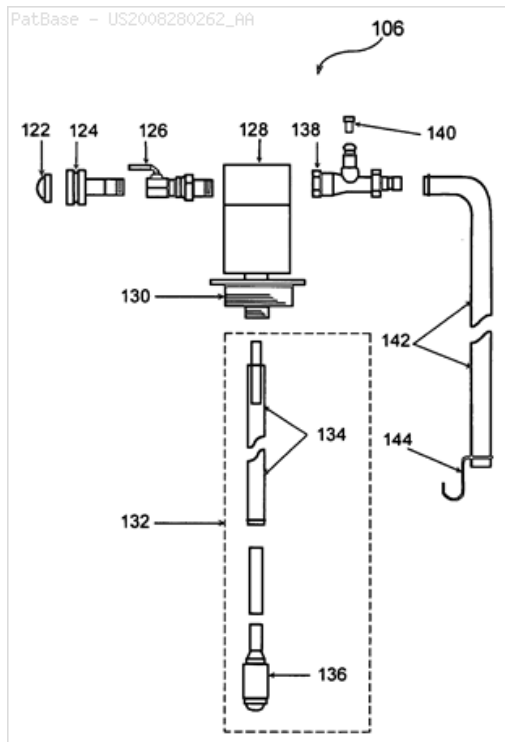
A61Q11/00 C02F1/48 (Core/Invention)

CPC: A61K8/02 A61K2800/81 A61Q11/00 C02F1/481 C02F2103/026

European: A61K8/02 A61Q11/00 C02F1/48A K61K201/036

K61K800/81 M02F103/02D

US: 134/1 134/42 204/557 210/222 210/223 433/216 433/216P

**Family:**

Publication number	Publication date	Application number	Application date
US2008280262 AA	20081113	US20070801840	20070512
US7896969 BB	20110301	US20070801840	20070512

Priority:

US20070801840 20070512

Probable Assignee: TELECHEM CORP**Assignee(s):** (std): TELECHEM CORP**Inventor(s):** (std): WASHINGTON LES W**Agent(s):** LOCKE LORD BISSELL AND LIDDELL LLP; ROBERTA L**44) Family number: 46625154 (US2010213279A)**

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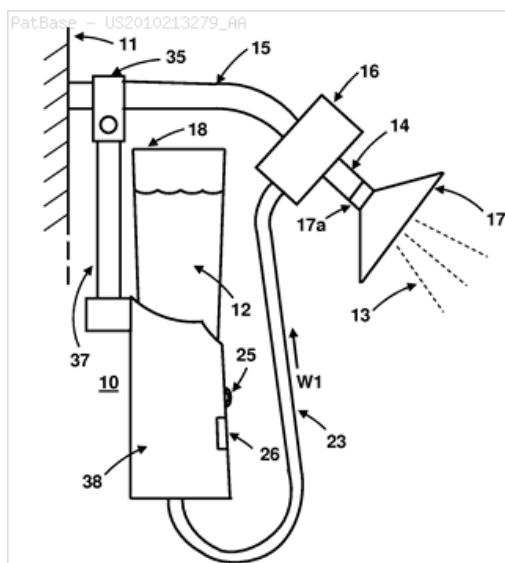
Title: AUTOMATIC FLUID DISPENSER FOR SHOWER

Abstract: A user programmable dispenser is disclosed for dispensing and mixing soap, shampoo or other liquids from a container to a mixer to be mixed with water flowing to a shower spray nozzle. A touch screen LCD display connected to a programmable controller is used by the user to first program the amount of time that the soap, shampoo or other liquids is to flow through a valve and be mixed with the water flowing from the shower spray nozzle, then is used to temporarily interrupt and recommence the flow of liquid, and is also used to display the amount of time remaining for the flow of the soap, shampoo or other liquids from the container of the time initially programmed by the user for the flow of liquid from the container to the mixer.

Classifications:**International (IPC 8-9):** B05B7/26 B67D5/08

B67D5/38 (Advanced/Invention);

B05B7/24 (Core/Invention)

CPC: E03C1/046 B05B1/18 B05B7/2443 B05B7/2464**European:** B05B1/18 E03C1/046**US:** 222/23 222/52 222/639 239/310**Family:**

Publication number	Publication date	Application number	Application date
US2010213279 AA	20100826	US20090359295	20090222

Priority:

US20090359295 20090222

Probable Assignee:

FREDERICK RAYMOND

Assignee(s): (std):

FREDERICK RAYMOND

Inventor(s): (std):

FREDERICK RAYMOND

Agent(s):

JOSEPH E FUNK

45) Family number: 47677161 (US2010297235A)

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Title: VASCULAR PUNCTURE CLOSURE SYSTEMS, DEVICES, AND METHODS USING BIOCOMPATIBLE SYNTHETIC HYDROGEL COMPOSITIONS

Abstract: A hydrogel composition for application to vascular puncture site of an animal to arrest bleeding and promote hemostasis mixes a biocompatible, synthetic, electrophilic polymer component comprising a poly(ethylene glycol) (PEG) Succinimidyl Glutarate having a functionality of four and a molecular weight of about 10,000 g/mole, with a biocompatible, synthetic, nucleophilic polymer component comprising a blend of a poly(ethylene glycol) (PEG) Amine having a functionality of four and a molecular weight of about 10,000 g/mole, and a Poly-L-Lysine hydrobromide having a molecular weight of greater than about 8000 g/mole.

Classifications:**International (IPC 8-9):** A61B17/03 A61K31/765 A61K9/00

A61K9/14 A61P17/02 A61P7/00 C08G69/26

C08G69/28 (Advanced/Invention)

CPC: A61B17/0057 A61B2017/00495 A61B2017/00548

A61B2017/0065 A61K9/0024 A61K9/06 A61K9/12 A61K9/7015

A61K31/436 A61K31/573 A61K31/60 A61K31/77 A61K47/34

A61L26/0052 A61L26/0076 A61L26/008 A61K9/0014 A61L26/0066

A61L2300/404 A61L2300/41 A61L2300/412 A61L2300/602

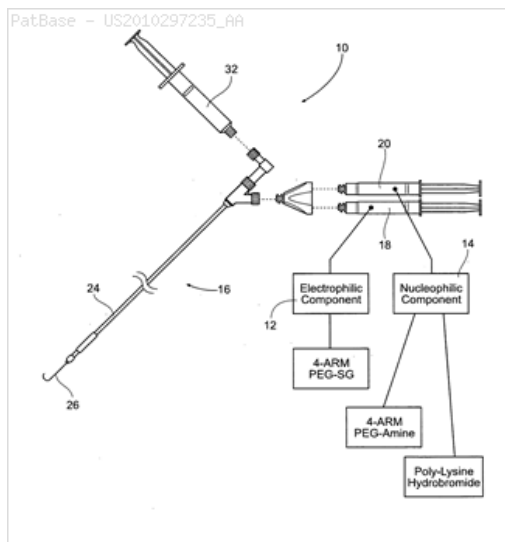
European: A61B17/00P A61K31/436 A61K31/573 A61K31/60

A61K31/77 A61K47/34 A61K9/00M3 A61K9/00M5D A61K9/06

A61K9/12 A61K9/70D A61L26/00B8 A61L26/00H2 A61L26/00H6

A61L26/00H7 K61B17/00L2 K61B17/00N4C K61B17/00P11A

K61L300/404 K61L300/410 K61L300/412 K61L300/602

US: 424/486 424/486P 424/78.37 424/78.370S 606/214 606/214S**Family:**

Publication number	Publication date	Application number	Application date
US2010297235 AA	20101125	US20090454593	20090520
US2011104280 AA	20110505	US20100800680	20100520
WO10134988 A1	20101125	WO2010US01490	20100520
WO10134989 A1	20101125	WO2010US01491	20100520

Priority:

US20090454593 20090520

US20090275534P 20090831

US20100337294P 20100202

US20100800680 20100520

Probable Assignee: CPC OF AMERICA INC**Assignee(s):** (std): CPC OF AMERICA INC ; HNOJEWYJ OLEXANDER**Inventor(s):** (std): HNOJEWYJ OLEXANDER**Agent(s):** RYAN KROMHOLZ AND MANION SC; RYAN DANIEL D ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KS KU KW KY KZ LA LB LC LE LG LH LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

46) Family number: 49238166 (WO11083401A2)

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Title: A COMPOSITION AND DISPENSER FOR PERSONAL HYGIENE

Abstract: A liquid composition for personal hygiene use comprising an active ingredient of cyclopentasiloxane. Tea Tree oil or an active component thereof, and combinations thereof. The composition could further include cyclopentasiloxane and dimethicone, and further include dimethiconol. Another composition might include Tea Tree oil or an active component thereof; glycerin; and water. This composition might further include terpinen-4-ol or silicone oil. The composition can be used as a wetting agent for a towelette or wet wipe. The invention includes a dispenser containing any of the compositions for dispensing and applying to rolled toilet tissue, thereby providing that sheets from the roll can be used as a wetted wipe for personal hygiene and health.

Classifications:**International (IPC 8-9):** A01N55/00 A01N65/00 A61K31/695

A61K36/61 (Advanced/Invention)

CPC: A61K8/0208 A61K8/891 A61K8/922 A61K36/61 A61Q17/005**European:** A61K36/61 A61K8/02C A61K8/891 A61K8/92C

A61Q17/00F



Fig. 3

Family:

Publication number	Publication date	Application number	Application date
IL203219 A0	20101031	IL20100203219	20100110
WO11083401 A2	20110714	WO20111B00014	20110106
WO11083401 A3	20111103	WO20111B00014	20110106

Priority:

IL20100203219 20100110

Probable Assignee: BCLEAN PROJECTS LTD**Assignee(s):** (std): LAYYOUS ALBIR ; SIGLER SIMON ; SUSSAN IHAB ; BCLEAN PROJECTS LTD**Assignee(s):** IHAB SUSSAN ; ALBIR LAYYOUS ; SIMON SIGLER**Inventor(s):** (std): LAYYOUS ALBIR ; SIGLER SIMON ; SUSSAN IHAB**Inventor(s):** IHAB SUSSAN ; ALBIR LAYYOUS ; SIMON SIGLER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

47) Family number: 30110170 (US2003000907A)

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Title: VENTED BEVERAGE CONTAINER

Abstract: A beverage container is provided with a hydrophobic vent consisting of a relatively thick and rigid disc-shaped piece of macroporous plastic having pore sizes averaging from 7-350 microns. The vent can be welded, molded or secured to the sidewall, bottom or cap of a plastic beverage container thus eliminating all moving parts. The macroporous plastic is resistant to oxidative abrasion, contamination and wetting and is strong enough to resist breakage. In one embodiment a baby bottle is provided which consists of a plastic bottle body, a nipple, and means for fastening the nipple to the bottle body. The bottle body is provided with a macroporous plastic vent which can be welded, molded or secured to the sidewall or bottom of the bottle body thus eliminating all moving parts. The bottle body can be washed repeatedly as a single unit with the vent intact.

Classifications:

International (IPC 8-9): A41D A41D13/00 A41D13/005 A45F3/20 A47D13/00 A47G19/22 A47G21/18 A61J11/14 A61J9/00 A61J9/04 B65B63/08 B65D B65D1/32 B65D23/00 B65D47/06 B65D47/24 B65D47/26 B65D51/16 B65D51/18 B65D65/00 B65D81/18 B65D81/38 C08J9/00 C12L C12L9/00 F16L11/04 F17C13/00 F25D F25D23/12 F25D3/00 F25D3/08 F25D7/00 F28C1/00 F28D3/08 F28D5/00 (Advanced/Invention); B65D51/16 B65D51/18 B65D65/00 B65D81/18 F25D3/00 F25D7/00 (Advanced/Non-invention);

A41D13/00 A41D13/005 A47D13/00 A47G19/22 A47G21/00 A61J11/14 A61J9/00 B65D81/18 B65D81/38 F16L11/04 F25D23/12 F25D7/00 F28C1/00 F28D5/00 (Core/Invention)

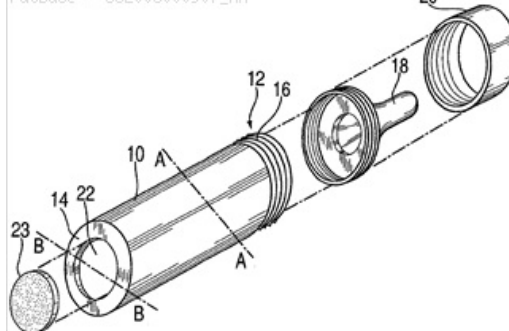
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CPC: A45F2003/166 A45F3/04 A45F3/18 Y10S215/902 A61J9/006 A61J11/001 A61J11/0025 A61J11/145 A61J11/1456 C02F1/003 C02F2307/02 A45F3/20 A47G19/2266 A47G19/2272 A47G21/18 A47G2400/027 A61J9/04 A61M2207/00 B65D1/323 B65D47/06 B65D47/242 B65D47/265 B65D51/1616 B65D81/3886 B65D2205/00 F25D2331/803 F25D2331/806 F25D2331/808 F25D2400/26 F28D5/00 A41D13/0053 F25D7/00 B65D81/18

European: A41D13/005C A45F3/18 A45F3/20 A47G19/22B12 A47G19/22B12G A47G21/18 A61J11/00F A61J11/00G A61J9/00D A61J9/04 B65D1/32C B65D47/06 B65D47/24A1 B65D47/26D4 B65D51/16C2 B65D81/18 B65D81/38K4 F25D7/00 F28D1/053E6D F28D5/00 K45F3/04 K45F3/16H K47G400/02F K61J11/14F2 K61J11/14F4 K61M207/00 L65D205/00 R25D331/803 R25D331/806 R25D331/808 R25D400/26 R28D5/00

US: 215/11.1 215/11.100S 215/11.5 215/11.500P 215/111 215/12.1 215/12.100P 215/308 215/902 62/259.3 62/259.300P 62/304 62/304S 62/315 62/315P 62/315S 62/316 62/371 62/457.9 62/457.900S 62/60

PatBase - US2003000907_AA



Family:

Publication number	Publication date	Application number	Application date
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AT439561 E	20090815	AT20030734378T	20030603
AU2003239965 AA	20031219	AU20030239965	20030603
AU2003239965 BB	20071025	AU20030239965	20030603
AU2003243374 AA	20031219	AU20030243374	20030603
AU2003243374 BB	20080821	AU20030243374	20030603
AU2003243374 BI	20080911	AU20030243374	20030603
AU2008246256 AA	20081218	AU20080246256	20081120
CA2488214 AA	20041202	CA20032488214	20030603
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CL2004003081 A1	20051202	CL20040003081	20041202
CL2004003082 A1	20051202	CL20040003082	20041202
CN1675109 A	20050928	CN20038018687	20030603
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DE60327635 D1	20090625	DE20036027635	20030603
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EP1537030 A2	20050608	EP20030756373	20030603
EP1537030 B1	20090513	EP20030756373	20030603
EP1549890 A2	20050706	EP20030734378	20030603
EP1549890 B1	20090812	EP20030734378	20030603
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IN07131DN2007 A	20071123	IN2007DN07131	20070914
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IN07133DN2007 A	20071130	IN2007DN07133	20070914
IN239811 B	20100409	IN2004DN03853	20041206
JP2005528297 T2	20050922	JP20040509561T	20030603
JP2005528576 T2	20050922	JP20040509324T	20030603
JP2007198728 A2	20070809	JP20070029510	20070208
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JP4263168 B2	20090513	JP20040509561T	20030603
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KR100838118 B1	20080613	KR20047019775	20030603
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MXPA04012152 A1	20050729	MX2004PA12152	20030603
MXPA04012153 A1	20050921	MX2004PA12153	20030603
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RU2004139114 A	20050710	RU20040139114	20030603
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US2004007553 AA	20040115	US20030453863	20030603
US2004173556 AA	20040909	US20030453864	20030603
US2005263479 AA	20051201	US20050194659	20050802
US2005263480 AA	20051201	US20050194660	20050802
US2006201178 AA	20060914	US20060434998	20060516
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US2006201187 AA	20060914	US20060435154	20060516
US2006248910 AA	20061109	US20060485042	20060711
US6398048 BA	20020604	US19970933639	19970919
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US7475560 BB	20090113	US20060434610	20060516
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WO03101858 A3	20040401	WO2003US17427	20030603
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WO03102480 A2	20031211	WO2003US17544	20030603
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ZA200409770 A	20051020	ZA20040009770	20041202
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Priority:

US19970933639	19970919	US20020162119	20020603	US20020388609P	20020603
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WO2003US17544	20041203	US20050194659	20050802	US20050194660	20050802
US20060435154	20060516	US20060434610	20060516	US20060434998	20060516
US20060485042	20060711	AU20080246256	20081120		

Probable Assignee: ADVANCED POROUS TECHNOLOGIES LLC

Assignee(s): (std): ADVANCED POROUS TECH LLC ; ADVANCED POROUS TECHNOLOGIES LLC ; SMOLKO DAN ; SMOLKO

Assignee(s): DANIEL D ; KEVORKIAN GREGORY ; KEVORKIAN GREGORY J ; EHDVANSED PORES TEKNOLODZHIZ LLS
Inventor(s): (std): DANIEL D SMOLKO ; GREGORY KEVORKIAN ; GREGORY SMOLKO DANIEL D KEVORK ; KEVORKIAN GREGORY J ; SMOLKO DANIEL ; SMOLKO DANIEL D ; KEVORKIAN GREGORY ; SMOLKO DAN ; LEVITIN VLADIMIR ; KEVORKJAN GREGORI ; DANIEL D SMOLKO
Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SIM AND MCBURNEY; CAREY Y CIA; SEVINC ERKAN; DEACONS; ARENT FOX PLLC; G L LOOMIS AND ASSOCIATES INC; GARY L; LOOMIS GARY L
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

48) Family number: 54732171 (US2013238118A)

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Title: FD

Abstract: The invention disclosed herein relates to methods and means for allocating, allotting, apportioning, dispensing, distributing, preparing, portioning, meting out and/or otherwise providing, controlling and/or regulating access to quantities of foods, beverages, and/or other substances. Various embodiments of the methods and means of the invention may be performed by and/or implemented in hardware, in software, by one or more entities, and/or by some combination of hardware, software and/or one or more entities.

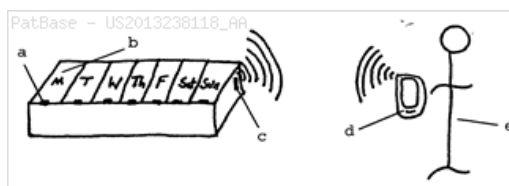
Classifications:

International (ipc 8-9): G07F11/00 (Advanced/Invention)

CPC: G07F17/0092 A61J7/0445 A61J7/0481 G07F17/0064

A61J7/0076

US: 423/580.1 426/580 426/594 426/597 426/614 426/615 426/631 435/183 530/300 530/350 536/1.11 536/102 536/114 536/123.1 536/123.13 536/2 544/274 548/211 552/502 554/1 560/41 562/400 568/700 568/852 700/231



Family:

Publication number	Publication date	Application number	Application date
US2013238118 AA	20130912	US20130753566	20130130

Priority:

US20120592489P 20120130 US20130753566 20130130

Probable Assignee: HAAS ALFRED M

Assignee(s): (std): HAAS ALFRED M

Inventor(s): (std): HAAS ALFRED M

49) Family number: 11281173 (US5842609A)

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Title: PERSONAL HYGIENE LIQUIDS DISPENSER

Abstract: A liquid dispensing device (10) for personal hygiene liquids is wall mounted with a plurality of containers (14) and valves (16). Each valve includes a valve plunger (60) with a head (62) having a flexible periphery (64) that provides increased bypass of liquid upon harder pressing and faster motion of the plunger. The valve has a seat (74) that presses the flexible periphery (64) against the valve inner cylindrical wall (54) of the valve bore (52) at the end of the return stroke. Each valve is also provided with a check valve (90) in an inlet port of the valve to restrict fluid flow back into the container upon actuation of the plunger. Each check valve is provided with a notch (100) that allows some restricted fluid flow of liquid back into the supply container (14) upon excessive pressure with in the valve bore (52).

Classifications:

International (ipc 8-9): A47K5/12 B65D83/68 (Advanced/Invention);

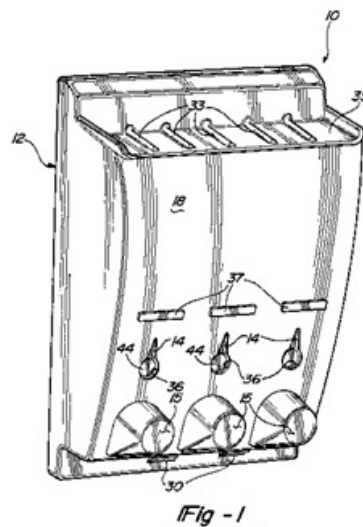
A47K5/00 (Core/Invention)

International (ipc 1-7): B65D83/68 B67D5/06

CPC: Y10T137/7848 A47K5/1204

European: A47K5/12C1

US: 137/513.5 222/181.3 222/383.1

**Family:**

Publication number	Publication date	Application number	Application date
CA2205513 AA	19971228	CA19972205513	19970515
US5842609 A	19981201	US19960672820	19960628

Priority:

US19960672820 19960628 CA19972205513 19970515

Probable Assignee: BRASS CRAFT MFG CO**Assignee(s):** (std): BRASS CRAFT MFG CO**Assignee(s):** GIL AMOS ; HIGGINS BRUCE WAYNE ; BRASS CRAFT MANUFACTURING COMPANY ; BRASS CRAFT MFG**Inventor(s):** (std): GIL AMOS ; HIGGINS BRUCE WAYNE**Agent(s):** SMART AND BIGGAR**50) Family number: 45170176 (US2010139493A)**

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Title: INTEGRATED METHOD AND SYSTEM FOR DISPENSING AND BLENDING/MIXING BEVERAGE INGREDIENTS

Abstract: An integrated beverage blending system comprising: a controller for menu selection; an ice portion control module; an ingredient module; a dispensing apparatus in communication with the ice portion control module and the ingredient module, wherein the ice and the ingredient are dispensed into a beverage container via the dispensing apparatus; and at least one blender module which blends and/or mixes the ice and the ingredient in the beverage container, thereby producing the beverage; wherein, upon removal of the beverage container from the blender module, the blender module initiates a cleaning mode.

Classifications:

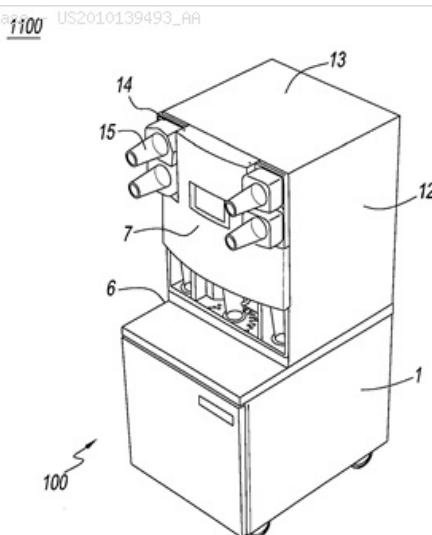
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CPC: A23L2/38 A47J31/58 A23G9/28 B01F3/0865 B01F5/0256 B01F2005/0048 B67D1/0052 G07F13/065 G07F17/0071 A47J43/07 A47J31/60 B67D1/0021 B67D1/0051 B67D1/07 B67D1/0858 B67D1/0888 A23G9/224 A23G9/30 A47J31/002 A23G9/045

European: B67D1/00F4 B67D1/00H2C B67D1/07 B67D1/08D2 B67D1/08J G07F13/06B G07F17/00F2

US: 1/1 222/1 222/105 222/108 222/129 222/129.1 222/129.100P 222/129.2 222/129.3 222/129.4 222/132 222/132S 222/135 222/144 222/144.5 222/144.500S 222/145.1 222/145.6 222/145.600S 222/146.6 222/146.600S 222/148 222/148S 222/1P 222/1S 222/236 222/239 222/239S 222/367 222/370 222/370S 222/52 222/55 222/56 222/61 241/100 241/100S 241/101.2 241/166 241/277 241/277S 241/33 241/35 241/35S 241/37.5 241/37.500S 241/60 241/DIG.17 366/150.1 366/197 366/206 366/348 426/231 426/231P 426/416 426/416S 426/506 426/519 426/519S 62/331 700/239 700/241 700/265 700/265P 700/283 700/283S 700/285 700/285S 99/275 99/275P 99/285 99/286 99/287 99/290 99/300 99/485 99/485S

PatBase - US2010139493_AA



Family:

Publication number	Publication date	Application number	Application date
AU2009324698 AA	20100617	AU20090324698	20091208
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AU2009333464 AA	20100708	AU20090333464	20091208
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EP2355667 A4	20120822	EP20090836740	20091208
EP2355667 B1	20150415	EP20090836740	20091208
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EP2359260 A4	20121003	EP20090832454	20091208
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EP2364492 A1	20110914	EP20090836742	20091208
EP2364492 A4	20121003	EP20090836742	20091208
EP2373572 A1	20111012	EP20090836743	20091208
EP2373572 A4	20120822	EP20090836743	20091208
EP2373572 B1	20170222	EP20090836743	20091208
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EP2378893 A4	20121003	EP20090836741	20091208
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US2013243917 AA	20130919	US20130871306	20130426
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US2014205726 AA	20140724	US20140226242	20140326
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US9364114 BB	20160614	US20090633772	20091208
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WO11071606 A1	20110616	WO2010US54317	20101027

Priority:

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US20090633772	20091208	US20090633763	20091208	US20090633766	20091208
US20090633790	20091208	US20090633786	20091208	US20090633793	20091208
WO2009US67230	20091208	WO2009US67229	20091208	WO2009US67223	20091208
WO2009US67226	20091208	WO2009US67227	20091208	WO2009US67225	20091208
US20100823985	20100625	WO2010US54317	20101027	US20120541307	20120703
US20130871318	20130426	US20130871306	20130426	US20140171101	20140203
US20140226242	20140326				

Probable Assignee: ENODIS CORP

Assignee(s): (std): CLAESSEON JAN ; ENODIS CORP ; NEVAREZ ROBERTO ; SMITH WILLIAM E ; WING HARRY EDWARD ; INODIS CORP ; ENODIS CORPORATION

Assignee(s): INODIS KORPOREJSHN ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; ENODIS CORP NEW PORT RICHEY

Inventor(s): (std): JAN CLAESSEON ; JR ; NEVAREZ ROBERTO ; ROBERTO NEVAREZ ; SMITH WILLIAM E ; CLAESSEON JAN ; WING HARRY EDWARD ; SMIT UILL JAM EH ; SMITH WILLIAM E JR ; KLESSON JAN ; KLAHSSON JAN ; SMITH WILLIAM

Inventor(s): SMIT UILL JAM EH. ; ROBERTO NAVAREZ ; WILLIAM E SMITH ; CLAESSEON JAN LAND O LAKES ; CLAESSEON JAN ; SMITH WILLIAM E LAND O LAKES ; WILLIAM E SMITH JR ; NEVAREZ ROBERTO HUDSON

Agent(s): IP GATEWAY PATENT AND TRADEMARK ATTORNEYS; IP GATEWAY PATENT AND TRADEMARK ATTORNEYS PTY LTD; IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; SIM AND MCBURNEY; MARKS AND CLERK; VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELEN U RECHTSANWAELEN MBB; VON KREISLER ALEK; VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELEN U RECHTSANWAELEN MBB; VON KREISLER SELTING WERNER; DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENT U RECHTSANWAELEN MBB; CARPINTERO MARIO; OHLANDT GREELEY RUGGIERO AND PERLE LLP; OHLANDT GREENLEY RUGGIERO AND PERLE LLP; OHANDT GREELEY RUGGIERO AND PERLE LLP; GREELEY PAUL D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

51) Family number: 23359190 (US2002074367A)

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Title: GRAVITY-FED LIQUID CHEMICAL DISPENSER BOTTLE

Abstract: Drawing Fig. 3 shows a Gravity-fed Liquid Chemical Dispenser Bottle (100), which stops the irritating wait for a bottle turned upside down to dispense thick Liquid Chemical (204) such as condiments, pharmaceuticals, motor oil, etc. especially with a low bottle, furthermore, the gravity-fed device stops the need to flip the bottle over to dispense such as in prior art ketchup bottles or motor oil bottles which can create a messy spill, furthermore, said gravity-fed device also stops the undesirable dispensing of Non-emulsified Liquid from Liquid Chemical (202) which floats to the top of a prior art bottle and is dispensed first along with air (202), furthermore, this invention stops the waste of Liquid Chemical (204) near the bottom and on the sides of prior art bottles which is now often thrown away, furthermore, the device is useful for, but, not limited to thicker, slow Liquid Chemicals (204) such as ketchup, mustard, barbecue sauce, relish, mayonnaise, etc, pharmaceuticals such as hand lotions, creams, shampoos, etc., and automobile chemicals such as anti-freeze, hydraulic fluid, motor oil, etc., furthermore, the device consists of a glass or squeezable plastic bottle shaped like a prior art ketchup bottle

having a Twist Ventilation Only Cap (102) on top of the bottle, a One-way Trapdoor Diaphragm (103) to prevent spills and Liquid Chemical (204) dispensing from the top, a Real Bottle Top with Ventilation Hole (104), a Liquid Chemical Bottle Body (106), a Real Bottle Bottom with Nozzle (108), a Flip-off/Flip-on Nozzle Cap (110), and a False Bottle Bottom or Stand (112), furthermore, the Twist Ventilation Only Cap (102) is optionally rotatable to allow air (202) intake through the Real Bottle Top with Ventilation Hole (104) with means to prevent a vacuum developing on large dispenses, furthermore, the False Bottle Bottom or Stand (112) is detachable by a screwing, flipping, or snapping motion revealing the Real Bottle Bottom with Nozzle (108).

Classifications:

International (IPC 8-9): B65D1/06 B65D23/00 B65D23/04

B65D51/16 B67D3/00 (Advanced/Invention);

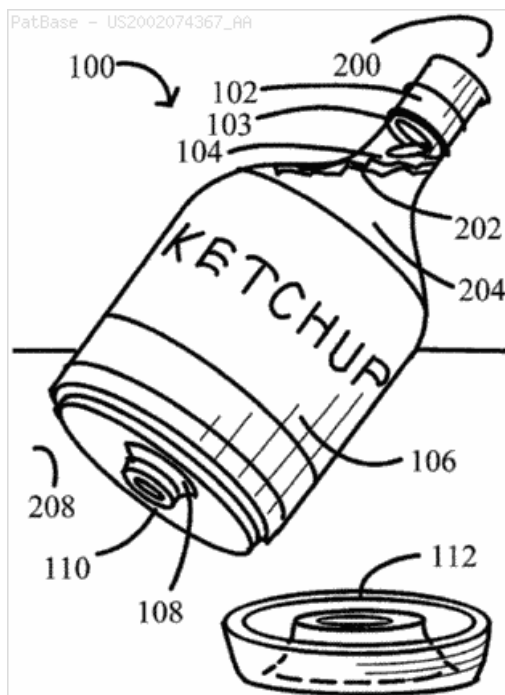
B65D1/06 B65D23/00 B65D51/16 (Core/Invention)

International (IPC 1-7): B67D3/00 B67D5/06

CPC: B65D1/06 B65D23/001 B65D23/04 B65D51/1683

European: B65D1/06 B65D23/00B B65D23/04 B65D51/16E2

US: 222/185.1 222/185.100S 222/478 222/517 222/534



Family:

Publication number	Publication date	Application number	Application date
US2002074367 AA	20020620	US20010837314	20010419
US2006243756 AA	20061102	US20060451547	20060612

Priority:

US20000256103P 20001218 US20010837314 20010419 US20060451547 20060612

Probable Assignee:

KAWABOINGO CORP

Assignee(s): (std):

KAWAKITA KEVIN

Assignee(s):

KAWABOINGO CORP

Inventor(s): (std):

KAWAKITA KEVIN

Agent(s):

KEVIN KAWAKITA

52) Family number: 28130195 (US2001010316A)

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Title: GAS-DRIVEN LIQUID DISPENSER EMPLOYING SEPARATE PRESSURIZED-GAS SOURCE

Abstract: An object sensor (18) detects an object such as a hand (20) and operates a valve (52) that permits liquid soap (86) to flow from a disposable soap container (12). The liquid soap is typically quite viscous but tends to be expelled because of pressure applied from a carbon-dioxide cartridge (32). A pressure-regulator assembly (40) permits gas from the carbon dioxide cartridge (32) to enter the soap container (28) only so long as the soap container's internal pressure is less than a predetermined maximum.

Classifications:

International (IPC 8-9): A45D34/04 A47K5/12 A47K5/122

B65D83/14 B67D5/02 B67D7/02 (Advanced/Invention);

A45D34/04 A47K5/12 (Advanced/Non-invention);

A45D34/04 A47K5/00 B67D7/00 (Core/Invention)

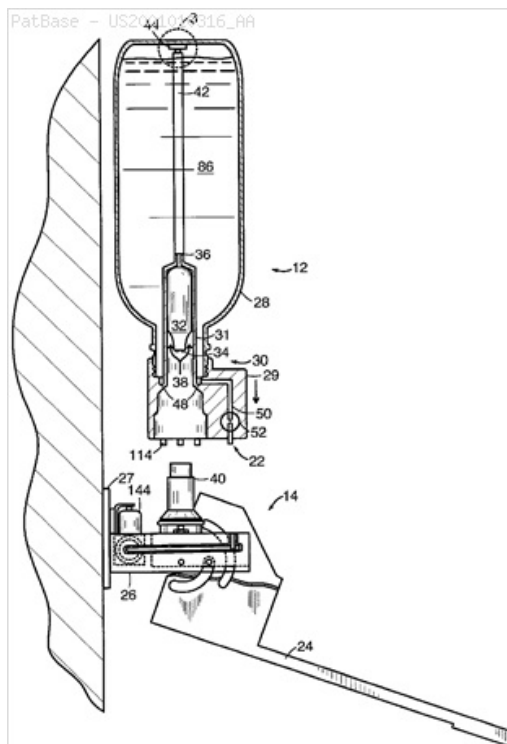
International (IPC 1-7): A45D34/04 A47K5/12 A47K5/122

B65D83/00 B65D83/14 B67D5/02 B67D5/08 B67D5/14

CPC: B05B9/0833 B67D7/0238 A47K5/1211 A47K5/1217

European: B67D1/04B B67D7/02E

US: 222/181.3 222/325 222/394 222/396 222/399 222/504 222/522/63



Family:

Publication number	Publication date	Application number	Application date
AU200050015 A1	20001121	AU20000050015	20000511
AU200050015 A5	20001121	AU20000050015	20000511
CA2336975 AA	20010110	CA20002336975	20000511
CN1315842 A	20011003	CN20008001299	20000511
DE60005457 D1	20031030	DE20006005457	20000511
DE60005457 D1	20031030	DE20006005457T	20000511
DE60005457 T2	20040722	DE20006005457T	20000511
EP1096873 A1	20010509	EP20000932273	20000511
EP1096873 B1	20030924	EP20000932273	20000511
JP2002544066 T2	20021224	JP20000616663T	20000511
KR20010074693 A	20010809	KR20017000399	20000511
TW503094 B	20020921	TW20000123081	20001102
US2001010316 AA	20010802	US20010773153	20010131
US6276565 BA	20010821	US19990309626	19990511
US6386403 BB	20020514	US20010773153	20010131
WO0067628 A1	20001116	WO2000US12815	20000511

Priority:

US19990309626 19990511 US19990309626 19990511 WO2000US12815 20000511
US20010773153 20010131

Probable Assignee: ARICHELL TECHNOLOGEIS INC

Assignee(s): (std): ARICHELL TECHONLOGIES INC ; ARICHELL TECH INC

Assignee(s): ARICHELL TECHNOLOGEIS INC ; ARICHELL TECHNOLOGIES INC ; EBNER EMANUEL C ; EBNER EMANUEL C JR ; PARSONS NATAN E

Inventor(s): (std): EBNER C ; EBNER E C ; EBNER EMANUEL C ; EBNER EMANUEL C JR ; EBNER JR EMANUEL C ; PARSONS E ; PARSONS N E ; PARSONS NATAN E

Inventor(s): E C EBNER ; EMANUEL C EBNER ; JR ; N E PARSONS ; NATAN E PARSONS ; NE PARSONS

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

53) Family number: 71313195 (US2018297725A)

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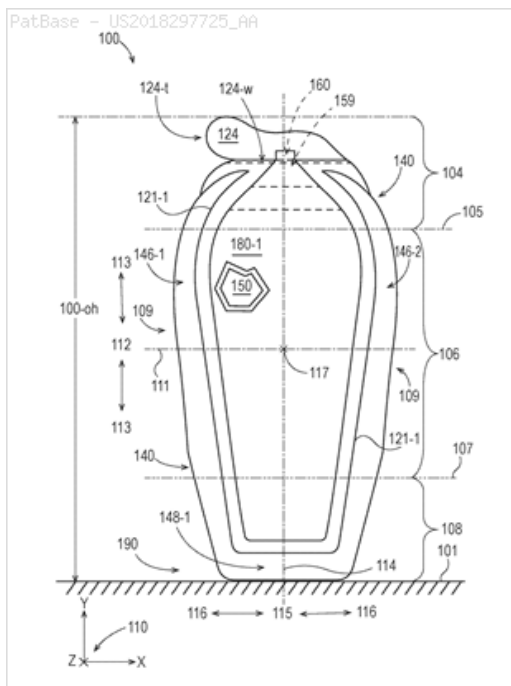
Title: METHODS OF OPENING FLEXIBLE CONTAINERS

Abstract: In a method of making disposable, flexible containers for fluent products, methods of opening the flexible containers are disclosed, including methods of opening multi-layer structures to enable filling of fluent product(s). The methods may include opening a partially complete container blank made of three or more layers by separating a portion of one layer from a portion of another layer by bending portions of all of the layers outward toward a first direction; and then bending portions of at some of the layers outward toward a second direction that is within 20 degrees of opposite to the first direction.

Classifications:

International (IPC 8-9): B32B1/02 B32B27/08 B32B27/30 B32B27/32 B32B27/34 B32B7/12 B65B3/02 B65B31/00 B65B39/12 B65B43/06 B65B43/26 B65B51/10 B65B51/14 B65B61/00 B65B61/02 B65B61/06 B65B61/18 B65B9/087 B65B9/093 B65D75/00 B65D75/58 (Advanced/Invention)

CPC: B65B9/087 B65B9/093 B65B31/006 B65B39/12 B65B43/06
B65B43/26 B65B51/146 B65B61/005 B65B61/02 B65B61/06
B65B61/18 B65D75/5811 B65B51/10 B32B1/02 B32B7/12
B32B2439/70 B32B27/34 B32B27/306 B32B27/08 B32B2307/7242
B32B27/32 B65B3/02 B65D75/008



Family:

Publication number	Publication date	Application number	Application date
US2018297725 AA	20181018	US20180919337	20180313
WO18175149 A1	20180927	WO2018US22175	20180313

Priority:

US20170476064P 20170324 US20180919337 20180313

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): CLARE BENJAMIN ; CLARE BENJAMIN JACOB ; ISHIHARA TADAYOSHI ; LESTER JOSEPH ; LESTER JOSEPH CRAIG ; LEVANDOSKI MARK ; YOU JUN ; BOURGEOIS MARC RICHARD ; BOURGEOIS MARK

Inventor(s): BOURGEOIS MARK RICHARD

Agent(s): KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

54) Family number: 36001200 (US2007207040A)

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Title: PUMP SYSTEM WITH CALIBRATION CURVE

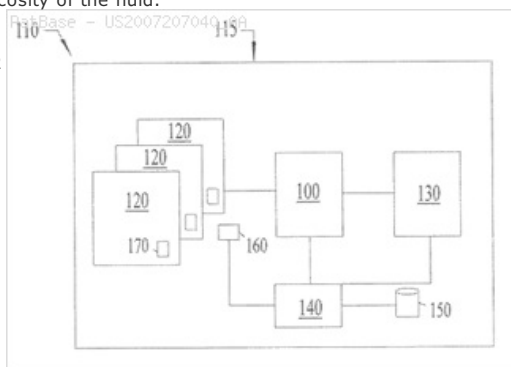
Abstract: A pumping system for pumping one out of a number of fluids with varying viscosities. The pumping system may include a positive displacement pump and a control for operating the positive displacement pump. The control may include viscosity compensation data. The viscosity compensation data relates to at least one of the fluids such that the control instructs the positive displacement pump to operate based on the viscosity of the fluid.

Classifications:

International (IPC 8-9): A47J31/40 A47J31/44 A47J31/46 B62D1/04 B67D B67D1/00 B67D1/04 B67D1/07 B67D1/08 B67D1/10 B67D1/12 B67D5/00 B67D5/08 B67D5/56 B67D7/02 B67D7/08 B67D7/14 B67D7/22 B67D7/32 B67D7/58 B67D7/74 B67D99/00 E03B11/16 F04B F04B13/00 F04B13/02 F04B17/04 F04B49/06 F04B49/10 F04B51/00 F04B53/00 F04D15/00 F16K3/26 F16K31/00 F16K31/06 G01F1/00 G01F1/34 G01F1/38 G01F1/56 G01F1/66 G01F11/00 G01F13/00 G01F23/00 G01F3/10 G01F3/20 G05B G05B15/02 G05B19/042 G05B19/406 G05B21/02 G05D11/00 G05D16/20 G05D7/06 G06F G06F17/00 G06F19/00 G06K17/00 G06K19/07 G06K19/077 G06K7/00 G06K7/10 G06Q10/00 G07F13/00 G07F13/06 G07F13/10 G08B13/14 G08B13/24 G16H20/60 H01H35/34 H01P7/00 H01Q H01Q1/22 H01Q1/50 H01Q1/52 H01Q11/12 H01Q15/00 H01Q19/00 H01Q19/06 H01Q7/00 H01Q7/04 H01Q9/00 H01Q9/04 H01Q9/16 H02P27/04 H02P8/00 H04B5/02 (Advanced/Invention); A47J31/40 B65B3/30 B67D1/00 G01F23/00 G01F3/10 G01F3/20 H01Q1/22 (Advanced/Non-invention); B67D1/00 B67D7/00 B67D7/08 B67D7/74 B67D99/00 F04B13/00 F04B49/06 G01F1/34 G01F23/00 G05B19/04 G05D7/06 G06F19/00 G08B13/14 H01P7/00 H01Q1/50 H01Q19/00 H01Q7/00 H01Q9/00 H01Q9/04 H02P27/04 H02P8/00 (Core/Invention); B67D F04B G05B G06F H01Q (Subclass/Invention)

International (IPC 1-7): B62D1/04 B67D5/08 F04B13/02 F04B49/06 G06F19/00 H01Q9/16 H02P8/00

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US20180160408	20181015				

Probable Assignee: DEKA PRODUCTS PARTNERSHIP LTD

Assignee(s): (std): COCA COLA CO ; BLUMBERG DAVID ; DATTOLO JAMES ; COCA COLA COMPANY AND DEKA PRO ; BLUMBERG JR DAVID ; BLUMBERG DAVID JR ; COCA COLA COMPANY E DEKA PRODUCTS LTD PARTNERSHIP ; CHARLES ROBERT A ; COCA COLA CO AND DEKA PRO ; BALLANTYNE TODD A ; BEAVIS RUSSELL ; BEAVIS RUSSELL H ; BEAVIS RUSSELL HERBERT ; DATTOLO JAMES J ; DEKA PRODUCTS LP ; DATTOLO JAMES JASON ; DEKA RES AND DEV CORP ; DEKA PRODAKTS LTD PARTNERSHIP ; DEJIA PRODUCT LTD LIABILITY PARTNERSHIP CO LTD ; VANWYK ERIC ; WINKLER FELIX ; KERWIN JOHN M ; MANNING CASEY ; GRAY LARRY B ; JONES BENJAMIN W ; VANWYK ERIC J ; JONES BENJAMIN ; GRAY LARRY ; KERWIN JOHN ; DEKA PRODUCTS LTD PARTNERHIP ; DEKA PRODUCTS LTD PARTERSHIP ; JONES JR BENJAMIN W ; MANNING CASEY P ; MANNING CASEY PATRICK ; PAWLOWSKI DANIEL F

Assignee(s): PRIBYL ERIC L ; GOULET MICHAEL J ; DEKA PRODUCTS PARTERSHIP LTD ; THE COCA COLA COMPANY ; DEKA PRODUCTS LTD PARTNERSHIP ; DEKA PRODUCTS PARTNERSHIP MANCHESTER LTD ; THE COCA COLA COMPANY E DEKA PRODUCTS LIMITED PARTNERSHIP ; THE COCA COLA COMPANY AND DEKA PRODUCTS LIMITED PARTNERSHIP ; DEJIA PRODUCT LIMITED LIABILITY PARTNERSHIP CO LTD ; DEKA PRODAKTS PARTNERSHIP LTD ; DEKA PRODUCTS PARTNERHIP LTD ; DEKA PRODUCTS LTD ; DEKA PRODAKTS LIMITED PARTNERSHIP ; DZE KOKA KOLA KOMPANI ; DEKA RESEARCH AND DEVELOPMENT CORP ; DEKA PRODUCTS PARTNERSHIP LTD ; DEKA PRODUCTS LIMITED PARTNERSHIP ; BIASI JOHN J ; COCA COLA CO AND DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s): (std): BALLANTYNE TODD ; BALLANTYNE TODD A ; BEAVIS RUSSELL ; BEAVIS RUSSELL H ; BEAVIS RUSSELL HERBERT ; BIVIS RASSELL KH ; BIVIS RASSELL KHERBERT ; BLUMBERG DAVID ; CARPENTER GREGG ; CARPENTIER GREGG ; CASEY MANNING ; CHARLES BOBERT ANDREW ; CHARLES ROBERT A ; DANIEL F PAWLOWSKI ; DATTOLO JAMES ; DATTOLO JAMES J ; DATTOLO JAMES JASON ; DAVID BLUMBERG ; ERIC VANWYK ; FELIX WINKLER ; GRAY LARRY ; GRAY LARRY B ; HERBERT BEAVIS RUSSELL ; HUGHES ROBERT ; JAMES DATTOLO ; JAMES J DATTOLO ; JASON DATTOLO JAMES ; JONES BENJAMIN ; JONES BENJAMIN W ; KARPENTER GREGG ; KERWIN JOHN ; KERWIN JOHN M ; KH JUZ ROBERT ; LAWRENCE B

ZIESEL ; MANNING CASEY ; MANNING CASEY PATRICK ; N JUMAN DEHJVID ; NEWMAN DAVID ; NEWMAN DAVID R ; PRIBYL ERIC I ; RUSSELL H BEAVIS ; VANWYK ERIC ; WINKLER FELIX ; ZIESEL LAWRENCE B ; ZISEL LORENS B ; RUSSELL BEAVIS ; ROBERT HUGHES ; GREGG CARPENTIER ; DAVID NEWMAN ; DATTOLO DZHEJMS ; BLUMBERG JR DAVID ; BIVIS RASSEL KH ; BALLANTAJN TODD A ; ZIESEL LAWRENCE ; VANWYK ERIC J ; PAWLOWSKI DANIEL F ; JONES JR BENJAMIN W ; DATTOLO DZHEJMS DZHEJSON ; BLUMBERG DEHVID ; BIASI JOHN J ; RUSSELL HERBERT BEAVIS ; LARRY B GRAY ; JOHN M KERWIN ; GREGG CARPENTER ; CHARLES ROBERT ANDREW ; BLUMBERG DAVID JR ; VANVIK EHRIC ; TODD A BALLANTYNE ; PRIBYL ERIC L ; JAMES JASON DATTOLO ; GOULET MICHAEL J ; MANNING CASEY P

Inventor(s): KERVIN DZHON M. ; DAVID BLUMBERG JR ; BENJAMIN W JONES ; GREJ LARRI B. ; DZHOUNZ BENDZHAMIN U. ; CHARL'Z ROBERT A. ; BLUMBERG JR ; MEHNING KEJSI ; VINKLER FELIKS ; ERIC J VANWYK ; N'JUMAN DEHJVID ; KH'JUZ ROBERT ; DATTOLO JAMES J SOMERVILLE ; BLUMBERG DAVID CHESTER

Agent(s): PHILLIPS ORMONDE FITZPATRICK; FB RICE PTY LTD; FB RICE; GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP; DEHNS; JACKSON ROBERT PATRICK ET AL; JACKSON ROBERT PATRICK; GREENE SIMON KENNETH; ELKINGTON AND FIFE LLP; OLIVIER ELEANOR MAY; LEHMANN MARIA ISABEL; SUGIYAMA NAOTO; SHIROGANE HIROSHI; AKAMATSU TOSHIKI; YAMASAKI YUKUZO; SUTHERLAND ASBILL AND BRENNAN LLP; HOLLAND AND KNIGHT LLP; MICHELLE SAQUET TEMPLE; MICHELLE SAQUET; MICHELLE SAQUET; TEMPLE MICHELLE SAQUET; COLANDREO BRIAN J; COLANDREO BRIAN J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

55) Family number: 39345200 (US2010193547A)

© PatBase

Title: MANUAL PUMP TYPE FLUID DISPENSER AND A METHOD OF MANUFACTURING SUCH A DISPENSER

Abstract: A manual pump action dispenser for dispensing at least one liquid from a container, the dispenser comprising a base and a cap (114) having an outlet (144) for the liquid, the base being mountable to or forming part of a container and the cap (114) being mountable to the base for movement relative to the base between a rest position and an actuated position, the dispenser further comprising a flexible insert (116) locatable between the base and the cap (114) to define a first pump chamber (122) for dispensing said at least one liquid, the insert being adapted to engage with the base to define an inlet through which said at least one liquid to be dispensed can enter the first pump chamber, the dispenser further comprising an inlet valve operable to enable liquid to enter the first pump chamber (122) through the inlet and an outlet valve arrangement operable to control the release of liquid from the first pump chamber through the outlet, in which the insert also defines a second pump chamber (123) for dispensing a second fluid.

Classifications:

International (IPC 8-9): A62C11/00 B05B1/34 B05B11/00 B05B15/00 B05B7/00 B65D37/00 B65D83/76 B65D88/54 B67D7/58 B67D7/76 G01F11/00 (Advanced/Invention);

B05B1/34 B05B15/00 B05B7/00 B29C49/06 (Advanced/Non-invention); B05B11/00 B65D37/00 B67D7/76 (Core/Invention)

CPC: B05B11/3057 B05B11/3084 B29B2911/1402 B29B2911/14026 B29B2911/14033 B29B2911/1404 B29B2911/14053 B29B2911/14066 B29B2911/1408 B29B2911/14093 B29B2911/14106 B29B2911/14113 B29B2911/1412 B29B2911/14133 B29B2911/1414 B29B2911/14146 B29C49/06 B05B1/3442 B05B7/0031 B05B7/0458 B05B7/0475 B05B11/3025 B05B7/0037 B05B11/0013 B05B11/0059 B05B11/3029 B05B11/303 B05B11/3059 B05B11/3081 B05B11/3095 B05B11/3066 B05B15/30 B05B11/00412 B05B11/0044 B05B11/3028 B05B7/0043 B05B11/007 B05B11/3033 B05B11/3035 B05B11/3064 B05B11/3087 B05B11/00442

European: B05B11/00B1F B05B11/00B5A2 B05B11/00B9R B05B11/30C9B B05B11/30E B05B11/30E5 B05B11/30E7 B05B11/30H4 B05B11/30K B05B11/30L B05B11/30S B05B15/00E B05B7/00C1A B05B7/00C1A1 B05B7/00C1A2 B29C49/06 L05B1/34A3B4D L05B11/00B2 L05B11/00B2B L05B11/00B6 L05B11/30E5B L05B11/30E8 L05B11/30H3F2 L05B11/30H4 L05B11/30H6 L05B11/30H7 L05B11/30K4 L05B7/04C3B L05B7/04C3D L29B911/14B2B L29B911/14B2D L29B911/14B2F L29B911/14B2H L29B911/14B4B L29B911/14B4D L29B911/14B4F L29B911/14B4H L29B911/14B4L L29B911/14B4L2 L29B911/14B4L2B L29B911/14B4N L29B911/14B4N2 L29B911/14B4N2B

US: 222/190 222/207 222/207S 222/321.1 222/321.6 222/321.8 222/321.800S 222/383.1 222/383.100S 239/330 239/330P

PatBase - US2010193547_AA

Patent Application Publication Aug. 5, 2010 Sheet 1 of 18 US 2010/0193547 A1

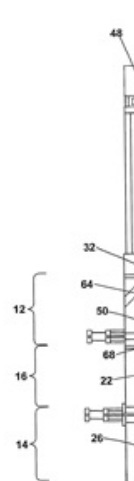


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
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WO10089599 A3	20110210	WO2010GB50179	20100204
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WO11077123 A1	20110630	WO2010GB52141	20101217

Priority:

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WO2010GB50179	20100204	GB20100006152	20100414	WO2010GB50780	20100513
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Probable Assignee: W M PLASTICS INC D B A NOVATION IND

Assignee(s): (std): ABDULJALIL HASSAN ; KEITH LAIDLER ; LAIDLER KEITH ; LEAFGREEN LTD ; RODD TIMOTHY

Assignee(s): W M PLASTICS INC D B A NOVATION IND ; LEAFGREEN LIMITED ; ENGINEERED MOLDING SOLUTIONS INC

Inventor(s): (std): ABDULJALIL HASSAN ; KEITH LAIDLER ; LAIDLER KEITH ; RODD TIMOTHY ; TIMOTHY RODD

Agent(s): WILSON GUNN; CHURCH SIMON JOHN; CHERNOFF VILHAUER MCCLUNG AND STENZEL LLP; HILL RICHARD ET AL; CHURCH SIMON JOHN ET AL; WILSON GUNN BIRMINGHAM; CHURCH SIMON

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

56) Family number: 11202202 (US5826755A)

© PatBase

Title: Liquid dispenser with selectably attachable actuator

Abstract: A dispenser for dispensing charges of a liquid from a container having a neck and a mouth at the end of the neck operable with the container in an inverted position for dispensing a charge of liquid. The dispenser includes a container holder for being mounted on a wall at one side of the holder constituting the back of the holder having a bottom with an opening therein for holding a container in an inverted position with its neck extending down through the opening. The dispenser further includes a member for being selectively pushed by hand toward the back of the holder or pulled by hand toward the front of the holder for actuating the dispenser. The actuator is selectively engageable with the container and with the holder in a first position for pushing the member toward the back of the holder to actuate the dispenser and in a second position for pulling the member toward the front to actuate the dispenser.

Classifications:

International (IPC 8-9): A47K5/12 (Advanced/Invention)

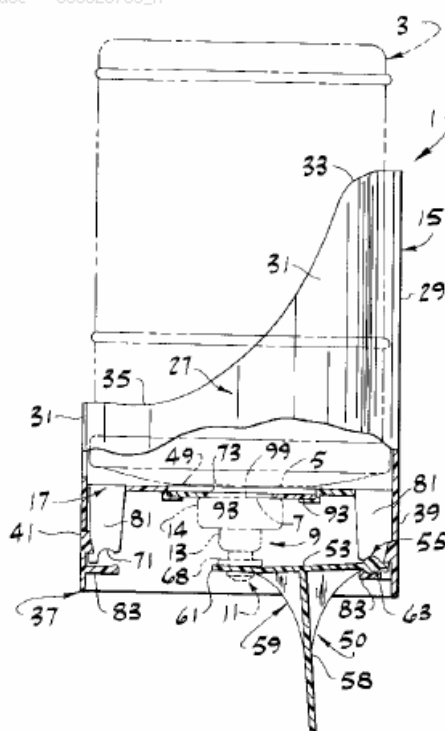
International (IPC 1-7): B65D88/54

CPC: A47K5/1208

European: A47K5/12C2

US: 222/181.1 222/309 222/321.8

PatBase - US5826755_A



Family:

Publication number	Publication date	Application number	Application date
US5826755 A	19981027	US19960695228	19960807

Priority:

US19950574260 19951218 US19960695228 19960807

Probable Assignee: KOLLER ENTERPRISES INC

Assignee(s): (std): KOLLER ENTERPRISES INC

Inventor(s): (std): BURD WAYNE D

57) Family number: 50831208 (GB201200669A)

© PatBase

Title: AN AUTOMATED METHOD AND PROCESS OF CONTINUOUSLY REGENERATING A CLEANING ELEMENT WORKING IN A CLEANING DEVICE

Abstract: A self-regenerating surface cleaning device 10 comprises a liquid catchment means enclosure module J and a cleaning element 18. The cleaning element 18 has the properties of a permeable, flexible absorbent material which is adapted to be in continuous contact with a dirty surface before entering the liquid catchment means enclosure module J while in a degenerated dirty condition and then exits it in a regenerated or clean condition before resuming contact with the cleaning surface. The cleaning device 10 may be a mop or other cleaning device used to clean floors or other dirty surfaces

Classifications:

International (IPC 8-9): A47L11/00 A47L13/10 A47L13/20

B08B1/00 (Advanced/Invention)

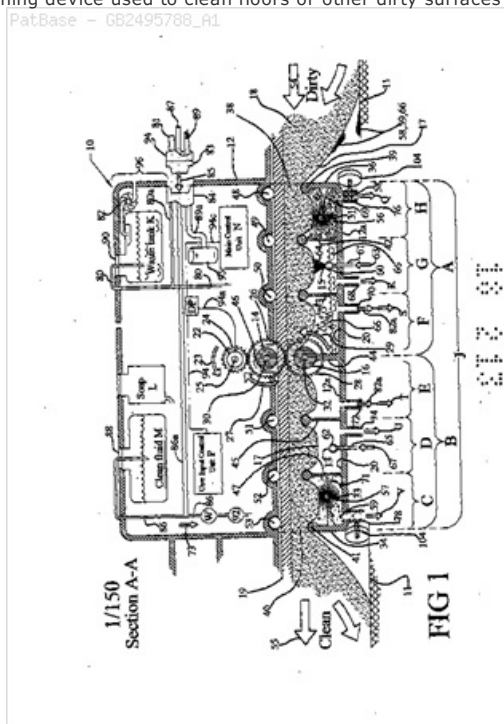
CPC: A47L11/00 A47L13/10 A47L13/20 B08B1/007 A47L5/24

A47L5/30 A47L7/0033 A47L9/0433 A47L11/292 A47L11/293

A47L11/4047 A47L11/4088 A47L11/4022 A47L11/4038 A47L11/4094

A47L13/12 A46B13/001

PatBase - GB2495788_R1

**Family:**

Publication number	Publication date	Application number	Application date
GB201200669 A0	20120229	GB20120000669	20120114
GB2495788 A1	20130424	GB20120000669	20120114

Priority:

GB20120000669 20120114

Probable Assignee: NGUMI COSMOS W

Assignee(s): (std): NGUMI COSMOS W ; NGUMI COSMOS WATHINGIRA

Assignee(s): COSMOS WATHINGIRA NGUMI

Inventor(s): (std): NGUMI COSMOS WATHINGIRA

Inventor(s): COSMOS WATHINGIRA NGUMI

58) Family number: 66149211 (US2017172350A)

© PatBase

Title: AUTOMATED MEAL PRODUCTION SYSTEM AND APPARATUS

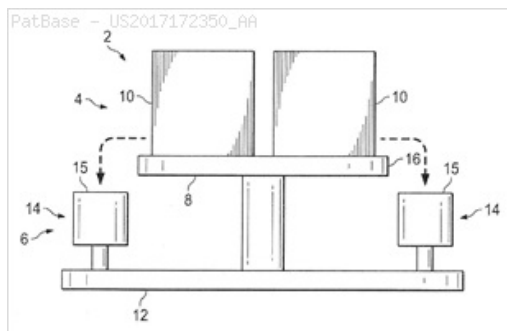
Abstract: An automated kitchen system having multiple cooking and/or mixing pots and having containers and dispensers for multiple ingredients. A customer or other person or system selects or creates a meal or other food product and the ingredients for the meal or other product are transferred from dispensers to the cooking and/or mixing pots which simultaneously cook and/or mix the ingredients. After cooking, the meal or other product is served and the cooking pot is cleaned and sanitized and oriented to receive the ingredients for the next meal or other product.

Classifications:

International (IPC 8-9): A47F10/06 A47J27/14 A47J36/34 A47J44/00

B01F15/02 B01F9/02 (Advanced/Invention)

CPC: A47J44/00 A47F10/06



Family:

Publication number	Publication date	Application number	Application date
CN109475247 A	20190315	CN201780025563	20170329
EP3448212 A1	20190306	EP20170790064	20170329
US2017172350 AA	20170622	US20160137968	20160425
US10154762 BB	20181218	US20160137968	20160425
WO17189147 A1	20171102	WO2017US24821	20170329

Priority:

US20150157961P 20150507 US20150217644P 20150911 US20160137968 20160425
 WO2017US24821 20170329

Probable Assignee: SPYCE FOOD CO

Assignee(s): (std): SPYCE FOOD CO ; SPYCE INC

Inventor(s): (std): FARID MICHAEL S ; KNIGHT BRADEN E ; UBELLACKER WYATT L ; SCHLUETER LUKE S ; ROGERS KALE T ; SEIDELL SOPHIA N

Agent(s): D YOUNG AND CO LLP; BROWN DENNIS D; BROWN PATENT LAW PLLC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

59) Family number: 34577220 (US2007138210A)

© PatBase

Title: TESTER FOR COSMETIC LIQUID SUCH AS PERFUME

Abstract: The present invention relates to a tester or cosmetic liquid dispensing apparatus. More specifically, the tester includes a support, a holding means for holding a bottle of cosmetic liquid, and control means for actuating a valve. The valve pumps liquid cosmetic such as perfume or toilet water ("eau de toilette") from the tester. The tester may be used with bottles of perfume of different sizes and the control means can be easily removed and replaced when a new perfume bottle is used.

Classifications:

International (IPC 8-9): B65D88/54 B67D5/06 B67D7/06

G01F11/00 (Advanced/Invention);

B65D88/00 B67D7/06 G01F11/00 (Core/Invention)

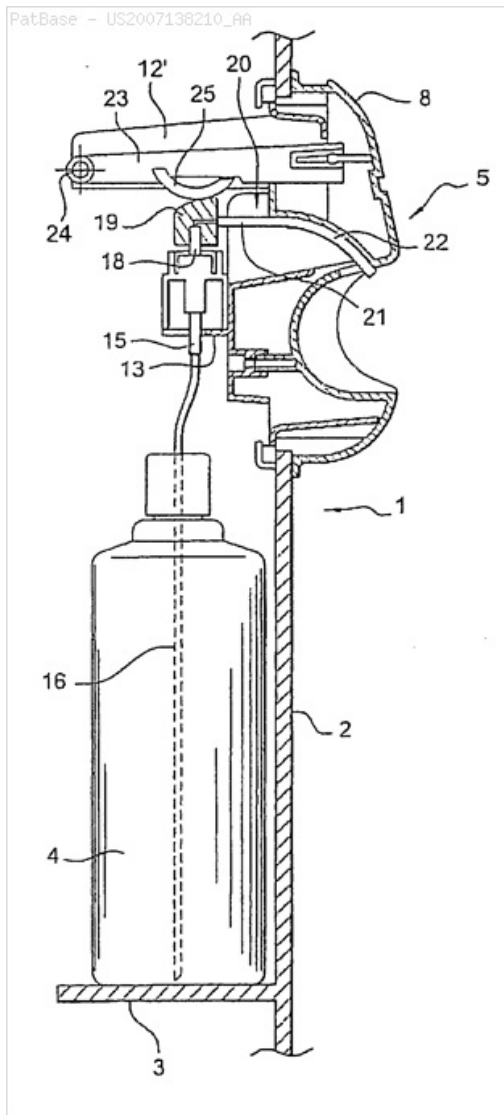
CPC: A45D34/02 A45D34/04 A45D2200/057 B05B11/3056

European: A45D34/02 A45D34/04 B05B11/00P9H6 B05B11/30H3F

K45D200/05H6 K45D34/04S

US: 222/180 222/181.3 222/182 222/321.8 222/321.800

222/321.800P

**Family:**

Publication number	Publication date	Application number	Application date
US2007138210 AA	20070621	US20050313141	20051219
US7424961 BB	20080916	US20050313141	20051219

Priority:

US20050313141 20051219

Probable Assignee: SCENTEST**Assignee(s):** (std): GRENIER JEAN**Assignee(s):** SCENTEST**Inventor(s):** (std): GRENIER JEAN**Agent(s):** POLSINELLI SHALTON FLANIGAN SUELTHAUS PC**60) Family number: 34708221** (US2007151041A)

© PatBase

Title: CONTROL PROCESS FOR A REVITALIZING APPLIANCE

Abstract: A method for revitalizing a fabric load with a revitalization system comprises selecting a revitalization program from a plurality of programs and operating the revitalization system in accordance with the selected revitalization program. The programs can include at least one of a fluid insertion step; a fabric relative motion step; a fluid extraction step; a fabric refreshing step; a fabric reshaping step; a light cleaning step; a water extraction operation, a relative motion operation; a fabric air flow operation; a cooling operation; a fluid insertion operation; and a fabric fluid absorption operation.

Classifications:

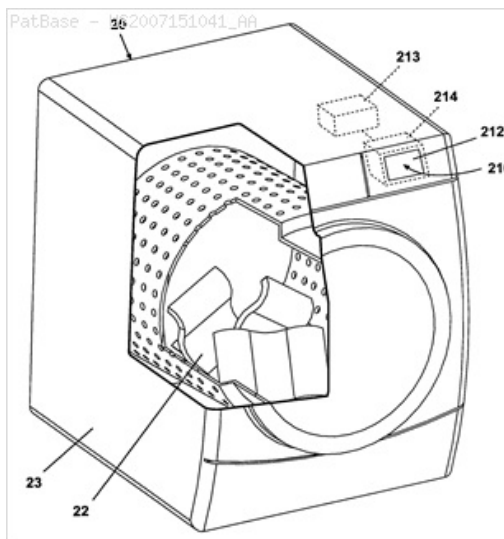
International (IPC 8-9): A01H5/02 B08B3/12 D04H3/04 D06B1/02 D06B19/00 D06F29/00 D06F33/00 D06F35/00 D06F37/00 D06F58/20 D06F58/22 D06F61/00 D06L1/00 F26B11/02 F26B3/00 (Advanced/Invention);

A01H5/02 B08B3/12 D04H3/02 D06B1/00 D06B19/00 D06F33/00 D06F35/00 D06F37/00 D06F61/00 D06L1/00 (Core/Invention)

CPC: D06F25/00 D06F29/00 D06F35/001 D06F35/003 D06F39/12 D06F43/002 D06F43/007 D06F43/02 D06F58/10 D06F81/00 D06F95/00 D06F35/00 D06F35/005 D06F39/088 D06F58/04 D06F58/203

European: D06F25/00 D06F29/00 D06F35/00 D06F35/00A D06F35/00C D06F35/00E D06F39/08S D06F39/12 D06F43/00B D06F43/00D D06F43/02 D06F58/04 D06F58/10 D06F58/20B D06F81/00 D06F95/00

US: 134/10 134/30 165/89 165/90 28/100 28/100P 312/228
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 34/82 38/3 38/3P 68/12.01 68/13.00R 68/139 68/139S 68/13R
 68/17R 68/19 68/19P 68/28 68/28S 68/3.00RP 68/3R 68/5.00C
 68/5.00CP 68/5.00RS 68/5C 68/5R 8/137 8/147 8/147S 8/149.1
 8/149.100S 8/149.2 8/149.200P 8/158 8/158S 8/159



Family:

Publication number	Publication date	Application number	Application date
US2007151041 AA	20070705	US20060483351	20060707
US2007151129 AA	20070705	US20060483210	20060707
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Priority:

US19970045072P	19970429	US19980038054	19980311	US20000520653	20000307
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US20100893657	20100929				

Probable Assignee: WHIRLPOOL CORP

Assignee(s): (std): BEIHOFF BRUCE C ; BRUCE BEIHOFF C ; CHERNETSKI FREDRICK E ; CONRAD DANIEL C ; DOYLE COLLEEN M ; MINKIN ALEXANDER V ; TOMASI DONALD M ; MCALLISTER KARL D ; LUCKMAN JOEL A ; UNDERLY KRISTINA K ; KUBASH THOMAS E ; IRVING GARY J ; KAEDING JANICE M ; METCALFE LD ; WHIRLPOOL CO ; WRIGHT TREMITCHELL ; WYATT VICKI LYN

Assignee(s): WHIRLPOOL CORP ; WHIRLPOOL CORP

Inventor(s): (std): BEIHOFF BRUCE C ; BRUCE BEIHOFF C ; CHERNETSKI FREDRICK E ; CONRAD DANIEL C ; DOYLE COLLEEN M ; IRVING GARY J ; KAEDING JANICE M ; KUBASH THOMAS E ; LUCKMAN JOEL A ; MCALLISTER KARL D ; METCALFE LD ; MINKIN ALEXANDER V ; TOMASI DONALD M ; UNDERLY KRISTINA K ; WRIGHT TREMITCHELL ; WYATT VICKI LYN

Agent(s): WHIRLPOOL PATENTS COMPANY - MD 0750; WHIRLPOOL PATENTS CO MD 0750; WHIRLPOOL PATENTS COMPANY - MD 0750, SUITE 102; WHIRLPOOL PATENTS CO MD 0750 SUITE 102; WHIRLPOOL PATENTS COMPANY-MD 0750; CLIFTON GREEN MCGARRY BAIR PC; MCGARRY BAIR PC; CLIFTON G

61) Family number: 59140230 (US2015125574A)

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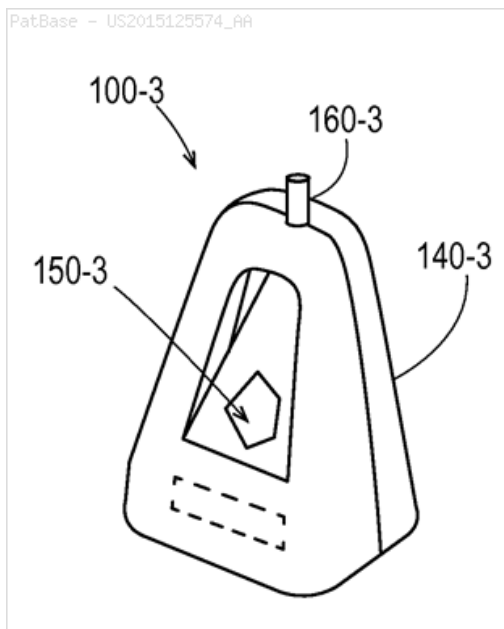
Title: FLEXIBLE CONTAINERS FOR USE WITH SHORT SHELF-LIFE PRODUCTS, AND METHODS FOR ACCELERATING DISTRIBUTION OF FLEXIBLE CONTAINERS

Abstract: A flexible container formed of first and second flexible materials, which may be laminates. The flexible materials can include a gas barrier layer. The gas barrier properties may be selected so as to be adequate for short shelf-life products or fluent products having low susceptibility to dissolving or water loss. Association of destination indicia with at least one flexible material of which a flexible container is to be assembled, prior to, during, or subsequent to assembly and/or filling of a product volume of the flexible container facilitates timely sorting and delivery of the flexible container to an intended destination.

Classifications:

International (IPC 8-9): B65B1/02 B65B3/02 B65B31/04 B65B5/02
 B65D30/10 B65D33/00 B65D33/02 B65D75/00 B65D75/20
 B65D75/52 B65D75/54 B65D75/56 B65D75/58 B65D81/03
 B65D81/24 B65D85/50 B65D85/72 G01N31/22 (Advanced/Invention)
CPC: B65D81/24 G01N31/229 B65D31/16 B65D33/004 B65D33/02

B65D75/008 B65D75/20 B65D75/525 B65D75/54 B65D75/566
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US: 206/459.1 206/524.6 426/106



Family:

Publication number	Publication date	Application number	Application date
BR112016010156 A2	20170801	BR20161110156	20141106
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EP3066028 A1	20160914	EP20140806496	20141106
EP3066028 B1	20180502	EP20140806496	20141106
ID201705734 A	20170602	ID2016P0002665	20141106
IN201617012937 A	20160831	IN201617012937	20160413
JP2016540702 T2	20161228	JP20160550694T	20141106
MX2016005520 A1	20160722	MX20160005520	20141106
US2015125574 AA	20150507	US20140534209	20141106
WO15069858 A1	20150514	WO2014US64284	20141106

Priority:

US20130900765P 20131106 EP20140806496 20141106 US20140534209 20141106
WO2014US64284 20141106

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; STANLEY SCOTT KENDYL ; PROCTER AND GAMBLE CO CINCINNATI ; ARENT LEE MATHEW ; BERG CHARLES JOHN JR ; BOURGEOIS MARC RICHARD

Inventor(s): (std): ARENT LEE MATHEW ; BERG CHARLES JOHN JR ; BERG JR CHARLES JOHN ; BOURGEOIS MARC RICHARD ; STANLEY SCOTT KENDYL

Inventor(s): STANLEY SCOTT KENDYL CINCINNATI ; BOURGEOIS MARC RICHARD CINCINNATI ; CHARLES JOHN BERG JR ; LEE MATHEW ARENT ; MARC RICHARD BOURGEOIS ; SCOTT KENDYL STANLEY ; BERG CHARLES JOHN JR CINCINNATI ; ARENT LEE MATHEW CINCINNATI

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; ENGISCH GAUTIER; MAULITTA PRAMULASARI; TANI AND ABE PC; GUFFEY TIMOTHY B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

62) Family number: 65423233 (US2018289203A)

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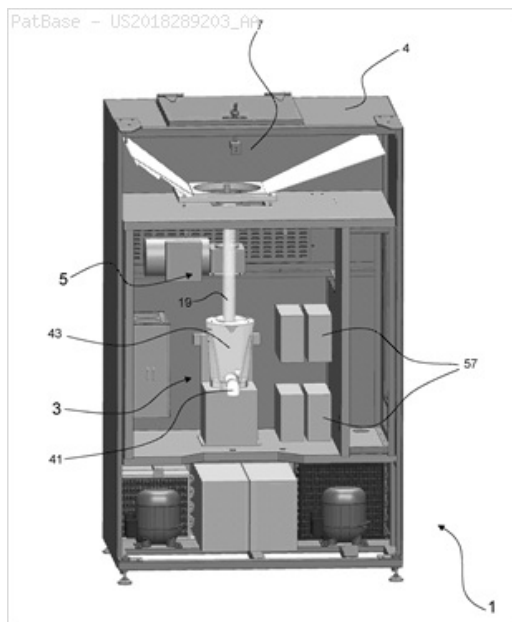
Title: MACHINE FOR DISPENSING AN ICE BEVERAGE

Abstract: A machine (1) for dispensing an ice beverage in the form of a pourable homogenous mixture of ground ice, liquid and flavour ingredients such as fruit, vegetables, fruit juice, milk, yoghurt or the like. The machine (1) includes a blending unit (3) for blending the constituents of the ice beverage, and an ice dispensing unit (5) for supplying ice to the blending unit (3). The ice dispensing unit (5) includes a portion control device for measuring a predetermined quantity of ice required for blending. The blending unit (3) includes a bendable spout (41) for selectively releasing blended constituents from the blending unit (3). The ice dispensing unit (5) is advantageously able to dispense accurate portions of ice and does not require connection to an external water line or access to a floor drain. The blending unit (3) is advantageously able to produce and pour an ice beverage without requiring a blending container (43) of the unit (3) to be tilted, turned upside down and shaken.

Classifications:

International (IPC 8-9): A47J31/40 A47J31/44 A47J43/04
A47J43/046 A47J43/07 A47J43/27 (Advanced/Invention)

CPC: A47J43/0722 A47J31/401 A47J31/44 A47J43/046 A47J43/27



Family:

Publication number	Publication date	Application number	Application date
AU2016336027 AA	20180426	AU20160336027	20160929
US2018289203 AA	20181011	US20160767088	20160929
WO17059483 A1	20170413	WO2016AU50918	20160929

Priority:

AU20150904117 20151009 WO2016AU50918 20160929

Probable Assignee: INNOVATIVE VENDING PTY LTD

Assignee(s): (std): INNOVATIVE VENDING PTY LTD

Inventor(s): (std): PIEDRABUENA RODOLFO

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

63) Family number: 34288238 (US2001039689A)

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Title: Squeegee device and system

Abstract: A device, system and method is disclosed for removing residues from surfaces and for applying materials to surfaces. The device system and method of the instant invention utilize a squeegee configuration with a first continuous squeegee edge. Preferably, the first continuous squeegee edge protrudes from a squeegee support element with squeegee walls that extend in all directions of a wiping plane. Within the boundary formed by the first continuous squeegee edge there are preferably additional cleaning elements such as bristles, sponges and/or additional squeegees. According to a preferred embodiment of the invention, a second squeegee edge protrudes from the inner squeegee region of the first continuous squeegee edge to form a squeegee compartment. Cleaning solutions and other materials are applied to surfaces by placing the solutions or materials into the squeegee compartment and wiping the surface with the squeegee edges. Alternatively, a cleaning medium is delivered from a source the surface through a squeegee configuration apertures for facilitating the dispensing the cleaning medium on to the surface.

Classifications:

International (IPC 8-9): A46B13/00 A46B13/02 A46B13/04 A46B15/00 A46B9/00 A46B9/02 A46B9/04 A46B9/06 A46B9/08 A47L1/05 A47L1/06 A47L13/00 A47L13/11 A47L13/12 A47L9/06 A61C17/22 A61C17/24 A61C17/32 A61C17/34 C11D1/00 E04H4/16 H05B3/60 (Advanced/Invention); A47L1/05 A47L13/12 A61C17/22 (Advanced/Non-invention); A46B13/00 A46B9/00 A47L1/00 A47L13/00 A47L13/10 A61C17/16 A61K (Core/Invention); A61K (Subclass/Invention)

International (IPC 1-7): A46B13/02 A46B15/00 A46B9/04 A46B9/06 A47L1/05 A47L1/06 A47L13/11 A47L13/12 A47L9/06 A61C17/22 C11D1/00 F22B29/06

CPC: A46B9/04 A46B9/06 A46B15/0002 A46B15/0032 A61C17/34 A61C17/222 A61C17/3445 B08B1/04 A46B5/0025 A46B9/065 A47L13/10 A47L13/12 A46B11/063 A46B15/0008 A61C17/227 A46B5/0095 A46B5/002 A46B13/023 A47L1/06 A47L13/11 A47L13/16 A47L17/06 A46B2200/1086 A47L1/08 A47L11/30 A47L11/4044 A47L11/4088 H05B3/60 A46B9/005 A46B9/045 A46B2200/1066 A61C17/3436 A61C17/3481 A61C17/349 A46B13/02 A61C17/3472 A61C17/22

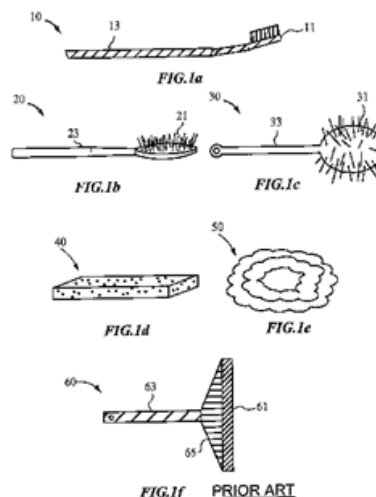
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K61C17/34A8

US: 1/1 134/6 15/1.7 15/1.700S 15/103 15/103S 15/104.94 15/105 15/11 15/110 15/110P 15/110S 15/114 15/114P 15/114S 15/117 15/117P 15/117S 15/118 15/121 15/121P 15/121S 15/160 15/167.1 15/167.100P 15/167.100S 15/167.2 15/167.200S 15/184 15/188 15/188S 15/201 15/201S 15/22.1 15/22.100P 15/22.100S 15/22.2 15/22.200S 15/245 15/245S 15/28 15/28P 15/28S 15/29 15/29P 15/29S 15/4 15/401 15/401P 15/4S 15/97.1 15/97.100P 15/97.100S 206/209.1 392/397 392/397P 392/485 401/262 401/270 510/108 601/137 601/141 601/141S 601/142 601/142S D32/041 D32/41 D4/116

PatBase - US2001039689_AA

Patent Application Publication Nov. 15, 2001 Sheet 1 of 20 US 2001/0039689 A1



Family:

Publication number	Publication date	Application number	Application date
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AU2003299998 AH	20040810	AU20030299998	20031223
AU2003300398 AA	20040810	AU20030300398	20031229
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DE60348831 D1	20160525	DE20036048831	20031229
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EP3111798 A1	20170104	EP20160164912	20031229
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KR20080044883 A	20080521	KR20087006565	20060818
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Priority:

US19990330704	19990611	US20000588686	20000605	US20000233580P	20000919
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Probable Assignee: EEGEE LLC

Assignee(s): (std): BOYLE DENNIS ; EEGEE LLC ; GAVNEY JAMES A ; GAVNEY JAMES A JR ; GAVNEY JAMES ALBERT ; KIM DANIEL SUNG HWE ; KIM DANIEL S ; GAVNEY JR JAMES ALBERT ; KEATON GREGORY LEE ; GAVNEY JR JAMES A ; IDZHI EHLEHLSI ; MIX JERRY ; SUN RICKSON ; LOEW CHRISTOPHER ; SOBOLL PASCAL HOMERO ; SOBOLL PASCAL H ; MKS INSTR INC

Assignee(s): MKS INSTRUMENTS INC ; GROOM RICHARD C ; GAVNEY JR ; GAVNEY JAMES AJR ; EEGEE LLC REDWOOD CITY

Inventor(s): (std): BOYLE DENNIS ; CHRISTOPHER LOEW ; DANIEL SUNG HWE KIM ; DENNIS BOYLE ; GAVNEY JAMES A JR ; GAVNEY JAMES ALBERT ; GAVNEY JR JAMES A ; GAVNEY JR JAMES ALBERT ; JERRY MIX ; JAMES A ; JAMES A JR GAVNEY ; KEATON GREGORY LEE ; KIM DANIEL S ; KIM DANIEL SUNG HWE ; LOEW CHRISTOPHER ; MIX JERRY ; PASCAL HOMERO SOBOLL ; SOBOLL PASCAL H ; SOBOLL PASCAL HOMERO ; SUN RICKSON ; RICKSON SUN ; SUNG HWE KIM DANIEL ; GEHVNI ML DZHEJMS A ; GROOM RICHARD C ; GAVNEY JAMES A

Inventor(s): SUNG HWE KIM DANIEL MOUNTAIN VIEW ; SOBOLL PASCAL ; SUN RICKSON PALO ALTO ; MIX JERRY REDWOOD CITY ; LOEW CHRISTOPHER PALO ALTO ; KIM DANIEL ; JR GAVNEY JAMES A ; JR JAMES A ; JR JAMES A GAVNEY ; GAVNEY JR ; GAVNEY JAMES A JR PALO ALTO ; GAVNEY JAMES AJR ; GAVNEY ; GAVNEY JAMES ; BOYLE DENNIS PALO ALTO

Agent(s): FB RICE; FB RICE PTY LTD; SMART AND BIGGAR; ANWALTSKANZLEI MEISSNER AND MEISSNER; HOWE

STEVEN; JENKINS PETER DAVID; SCHICKER SILVIA; HAVERSTOCK AND OWENS LLP; HAVERSTOCK AND OWENS LLP ATTN JAMES A GAVNEY JR; HAVERSTOCK AND OWENS LLP ATTN JAMES A GAVNEY JR AGENT; HAVERSTOCK AND OWENS LLP ATTN JAMES A GAVNEY AGENT; ATT JAMES A GAVNEY HAVERSTOCK AND OWENS LLP; ATTN JAMES A GAVNEY HAVERSTOCK AND OWENS LLP; JAMES A GAVNEY JR HAVERSTOCK AND OWENS LLP; FSP LLC; JAG PATENT SERVICES LLC ATTN JAMES A GAVNEY; MCDERMOTT WILL AND EMERY LLP; JAG PATENT SERVICES LLC; JAMES A; JAG PATENT SERVICES LLP; JAG PATENT SERVICES
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

64) Family number: 23506238 (US2004060107A)

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Title: INDIVIDUALLY ADJUSTABLE, AUTOMATED, WHOLE-BODY WASHING APPARATUS

Abstract: An individually adjustable, automated, washing apparatus, including: (A) a controller arranged for receiving input to a program of at least two steps, respectively having a plurality of variables, and the controller transforms the input into a series of control signals; (B) a wash structure held by a support construction, and the wash structure includes a surface, in contact with a portion of a person to be washed, and this surface has a first system of running water and tactile stimulus members, and the first system is imbedded in said surface, and is in communication with a water source, and is responsive to the signals; and (C) at least one driver of motion of the members, and the at least one driver is driven by at least one item selected from the list: electromechanical motors, water pressure, air pressure, and a pressurized air-water-mixture.

Classifications:

International (IPC 8-9): A47K7/04 A61H33/00

A61H9/00 (Advanced/Invention);

A61H15/00 A61H7/00 (Advanced/Non-invention);

A47K7/00 A61H33/00 A61H9/00 (Core/Invention);

A61H15/00 A61H7/00 (Core/Non-invention)

International (IPC 1-7): A47K A47K3/02 A61H33/00 D06F

CPC: A61H33/6021 A61H33/6089 A61H35/00 A61H2201/0107

A61H2201/0142 A61H2201/0149 A61H2201/0157 A61H2201/0192

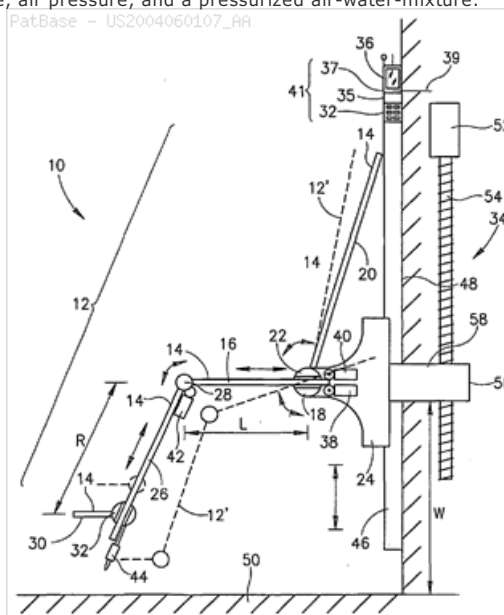
A61H2201/1238 A61H2201/1604 A61H2201/1609 A61H2201/1623

A61H2201/164 A61H2201/502 A61H2201/5038 A61H2201/5092

A61H9/00 A47K7/046 A61H7/006 A61H15/00 A61H33/00

European: A47K7/04B A61H33/00 A61H9/00 K61H15/00 K61H7/00H

US: 4/564.1 4/605



Family:

Publication number	Publication date	Application number	Application date
AU2002225309 AA	20020724	AU2002225309	20020115
IL140923 A0	20020210	IL20010140923	20010116
US2004060107 AA	20040401	US20030466286	20030715
WO02055784 A2	20020718	WO2002IL00034	20020115
WO02055784 A3	20040318	WO2002IL00034	20020115

Priority:

IL20010140923 20010116 WO2002IL00034 20020115

Probable Assignee: ATI LTD

Assignee(s): (std): ATID INC ; EISENBERG DAVID

Assignee(s): ATI LTD ; DAVID EISENBERG

Inventor(s): (std): EISENBERG DAVID

Inventor(s): DAVID EISENBERG

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

65) Family number: 31986241 (US2001034031A)

© PatBase

Title: High throughput screening for novel enzymes

Abstract: Disclosed is a process for identifying clones having a specified activity of interest, which process comprises (i) generating one or more expression libraries derived from nucleic acid directly isolated from the environment; and (ii) screening said libraries utilizing a fluorescence activated cell sorter to identify said clones. More particularly, this is a process for identifying clones having a specified activity of interest by (i) generating one or more expression libraries derived from nucleic acid directly or indirectly isolated from the environment; (ii) exposing said libraries to a particular substrate or substrates of interest; and (iii) screening said exposed libraries utilizing a fluorescence activated cell sorter to identify clones which react with the substrate or substrates. Also provided is a process for identifying clones having a specified activity of interest by (i) generating one or more expression libraries derived from nucleic acid directly or indirectly isolated from the environment; and (ii) screening said exposed libraries utilizing an assay requiring co-encapsulation, a binding event or the

covalent modification of a target, and a fluorescence activated cell sorter to identify positive clones.

Classifications:

International (IPC 8-9): A61B6/00 A61P11/00 A61P31/00 A61P35/00 A61P37/02 B01J19/00 B01L3/00 C03B37/15 C03B37/16 C12M1/00 C12M1/34 C12N1/00 C12N1/12 C12N1/15 C12N1/19 C12N1/20 C12N1/21 C12N1/52 C12N15/09 C12N15/10 C12N15/12 C12N5/02 C12N5/08 C12Q1/00 C12Q1/02 C12Q1/25 C12Q1/68 C40B30/00 C40B30/04 C40B40/02 C40B40/06 C40B60/14 G01N1/10 G01N21/03 G01N21/64 G01N27/447 G01N33/15 G01N33/50 G01N33/53 G01N33/542 G01N33/543 G01N33/554 G01N33/569 G01N33/68 G01N37/00 G06K9/00 (Advanced/Invention); B01J19/00 B01L3/00 C12M1/00 C12M1/34 C12N1/00 C12N15/09 C12N15/10 C12Q1/02 C12Q1/68 C40B40/06 C40B60/14 G01N21/03 G01N27/447 G01N33/15 G01N33/50 G01N33/53 G01N33/543 G01N37/00 (Advanced/Non-invention); B01J19/00 B01L3/00 C12M1/00 C12M1/34 C12N1/00 C12N15/02 C12N15/09 C12N15/10 C12Q1/02 C12Q1/68 G01N21/03 G01N27/447 G01N33/15 G01N33/50 G01N33/53 G01N33/536 G01N33/543 G01N37/00 (Core/Invention); C12Q1/68 C40B40/04 C40B60/14 (Core/Non-invention); C12N C12Q (Subclass/Invention)

International (IPC 1-7): B01J13/02 B01J13/04 B01J19/00 B01L3/00 C12M1/00 C12M1/34 C12N1/12 C12N1/20 C12N15/02 C12N15/09 C12N15/10 C12N15/74 C12P21/06 C12Q1/00 C12Q1/02 C12Q1/68 G01N1/10 G01N21/00 G01N21/03 G01N27/447 G01N33/15 G01N33/48 G01N33/50 G01N33/53 G01N33/537 G01N33/542 G01N33/543 G01N33/554 G01N33/567 G01N33/569 G01N37/00 G06F19/00 G06K9/00

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European: B01J19/00C B01L3/00C2D B01L3/00C2D8 B01L3/5085 B01L3/50857 B82Y30/00 C03B37/15 C03B37/16 C12N15/10C C12N15/10C1 C12N15/10C15 C12N15/10C6 C12Q1/02 C12Q1/68A8 C40B30/04 C40B40/02 C40B40/08 C40B50/06 G01N21/03A G01N33/50D G01N33/543D2 G01N33/569 L01J219/00C10B16 L01J219/00C10B16B L01J219/00C10B2 L01J219/00C2D L01J219/00C2D14B L01J219/00C2D4B L01J219/00C2J L01J219/00C2J2 L01J219/00C2L7F2 L01J219/00C4B L01J219/00C4H L01J219/00C4L12 L01J219/00C4L2 L01J219/00C4L24 L01J219/00C4L2D L01J219/00C4L2F L01J219/00C4L2H2 L01J219/00C4L2H2H L01J219/00C4L2H4 L01J219/00C4L2J2 L01J219/00C4L2J6 L01J219/00C4L2L4 L01J219/00C4L3B L01J219/00C4L3D L01J219/00C6F L01J219/00C6F2 L01J219/00C6P L01L200/02C L01L3/50857 L01L300/08B6 L01L300/08C4 L01L400/04F2 M12Q1/68B10A M40B40/06 M40B60/14 S01N500/04

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PatBase - US2001034031_AA

Patent Application Publication Oct. 25, 2001 Sheet 1 of 16 US 2001/0034031 A1

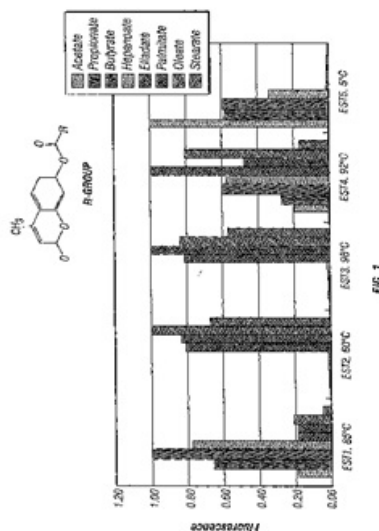


FIG. 1

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US6174673 BA	20010116	US19980098206	19980616
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Priority:

US19970876276	19970616	US19970876276	19970916	AU19980081502	19980616
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US20040964940	20041014				

Probable Assignee: BASF SE

Assignee(s): (std): DIVERSA CORP ; KELLER MARTIN ; LAFFERTY WILLIAM MICHAEL ; RECOMBINANT BIOCATALYSIS INC D ; DIVERSA CORP A DELAWARE CORP ; RECOMBINANT BIOCATALYSIS INC ; SHORT JAY M

Assignee(s): RECOMBINANT BIOCATALYSIS INC DELAWARE CORP ; VERENIUM CORP ; WYBORSKI DENISE ; ZHANG FEIYU ; TOZER EILEEN ; ANDRAE STEFAN ; BASF ENZYMES LLC ; BASF SE ; BP NORTH AMERICA INC CORP ; DIVER CORPSA ; DIVERSA A DELAWARE CORP ; FREY GERHARD ; MOORE JOHNATHAN ; LAFFERTY WILLIAM MICHAEL

Inventor(s): (std): LAFFERTY WILLIAM M ; LAFFERTY WILLIAM MICHAEL ; LAFFERTY WILLIAM MICHAEL ; MARTIN KELLER ; MOORE JOHNATHAN ; SHORT JAY ; SHORT JAY M ; TOZER EILEEN ; ANDRAE STEFAN ; FREY GERHARD ; JAY M SHORT ; KELLER MARTIN ; WYBORSKI DENISE ; ZHANG FEIYU

Inventor(s): LAFFERTY WILLIAM ; WILLIAM MICHAEL LAFFERTY

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; MBM INTELLECTUAL PROPERTY LAW LLP; DIVERSA CORP; FISH AND RICHARDSON PC; DLA PIPER RUDNICK GRAY CARY US LLP; NYDEGGER AND ASSOCIATES

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

66) Family number: 43362244 (US2009148342A)

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Title: HYPOCHLORITE TECHNOLOGY

Abstract: This invention generally relates to compositions and method of producing diluted hypohalous acid and hypohalous acid vapor. These compositions can be used to treat allergen containing surfaces, hard surfaces, food contact surfaces, hospital surfaces, food surfaces, kitchen surfaces, bathroom surfaces, human surfaces, animal surfaces, children's items, outdoor surfaces, soft surfaces, and medical instruments. These compositions can be converted to solid particulate or granular compositions. These compositions can be put into a variety of containers which preserve the stability. These compositions can be used to treat allergens and molds and as part of a mold detection system. These compositions can be dispersed into the air to enable microbiological control.

Classifications:

International (IPC 8-9): A61L2/20 (Advanced/Invention);

A61L2/20 (Core/Invention)

CPC: A01N59/00 A23L3/358 A61L2/18 A61L2/20 A61L2/22 A61L2/23

A61L9/01 A61L9/05 A61L9/12 A61L9/14 A61L2202/24 C11D3/124

C11D3/3953 C11D3/3956 C11D3/48 C11D17/041

European: A01N59/00 A23L3/358 A61L2/18 A61L2/20 A61L2/22

A61L2/23 A61L9/01 A61L9/05 A61L9/12 A61L9/14 C11D17/04B

C11D3/12G C11D3/395D C11D3/395H C11D3/48 K61L202/240

US: 422/123 422/123S 422/37 422/37P 424/661 424/661S

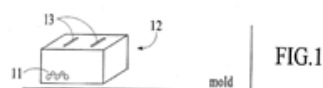


FIG.1



FIG.2



FIG.3



FIG.4



FIG.5

Family:

Publication number	Publication date	Application number	Application date
US2009148342 AA	20090611	US20070927288	20071029

Priority:

US20070927288 20071029

Probable Assignee: ARNT LACHELLE

Assignee(s): (std): ARNT LACHELLE ; BITOWFT BRUCE K ; BROMBERG STEVEN ; BROMBERG STEVEN E ; CHIANG CHIH ; CRANE ELIZABETH ; EL SAYED MAHA ; DANI NIKHIL ; HUITT DANIEL A ; FUNG JENNIFER ; HUITT DANIEL AARON ; GOPEGUI RICARDO RUIZ DE ; EL SAYED MAHA Y ; FRIEDMAN VICKI ; FOLAND LAFAYETTE D ; JULIAN JENNIFER C ; CUMBERLAND SCOTT ; GARABEDIAN ARAM ; SHAHEEN ELIAS A ; NGUYEN ANDREAS ; VIEIRA KENNETH L ; SHIEH DORIS S ; MELLETT DIANE ; KENNEDY TIMOTHY ; WIESMAN JULIE ; VIEIRA KENNETH ; TIMBERMAN JULIE ; OCHOMOGO MARIA G ; SMITH WILLIAM L ; ROBLES JORGE

Inventor(s): (std): ARNT LACHELLE ; BITOWFT BRUCE K ; BROMBERG STEVEN ; BROMBERG STEVEN E ; CHIANG CHIH ; CRANE ELIZABETH ; CUMBERLAND SCOTT ; DANI NIKHIL ; EL SAYED MAHA ; EL SAYED MAHA Y ; FOLAND LAFAYETTE D ; FRIEDMAN VICKI ; FUNG JENNIFER ; GARABEDIAN ARAM ; GOPEGUI RICARDO RUIZ DE ; HUITT DANIEL A ; HUITT DANIEL AARON ; JULIAN JENNIFER C ; KENNEDY TIMOTHY ; MELLETT DIANE ; NGUYEN ANDREAS ; OCHOMOGO MARIA G ; ROBLES JORGE ; SHAHEEN ELIAS A ; SHIEH DORIS S ; SMITH WILLIAM L ; TIMBERMAN JULIE ; VIEIRA KENNETH ; VIEIRA KENNETH L ; WIESMAN JULIE

Agent(s): THE CLOROX COMPANY; CLOROX CO

67) Family number: 23509246 (DE20122888U1)

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Title: SPENDER FUER REINIGUNGSMITTEL

Abstract: Dispenser for a hand-cleaning product comprises a liquid container (15) with an outlet (17) and a pressurized gas connection, and a sensor (3) opening a valve (5) dispensing cleaning product when approached by a hand. A closed pressurized gas chamber (8) is connected to the valve. The sensor is powered by a solar cell (1). The valve triggered by the sensor is connected in series with the liquid container. Preferred Features: The valve is a solenoid valve. The pressurized gas chamber has a holder and a piercing mechanism for a gas cartridge. The piercing mechanism is a knee joint.

Classifications:

International (IPC 8-9): A47K5/12 (Advanced/Invention);

A47K5/00 (Core/Invention)

International (IPC 1-7): A47K5/12

CPC: A47K5/1211

European: A47K5/12D

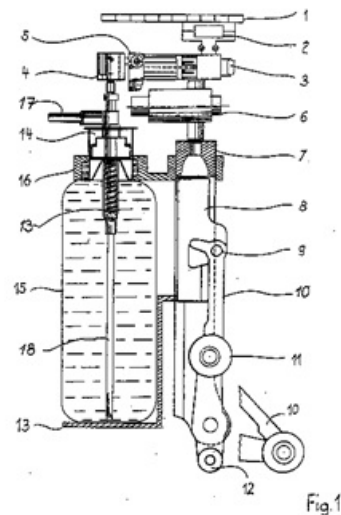


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
DE10103890 A1	20020808	DE20011003890	20010130
DE20122886 U1	20090430	DE20012022888U	20010130

Priority:

DE20011003890 20010130 DE20012022888U 20010130

Probable Assignee:

SCHNEIDER HARTMUT J

Assignee(s): (std):

SCHNEIDER HARTMUT J

Inventor(s): (std):

SCHNEIDER HARTMUT J

68) Family number: 30065251 (US2003006144A)

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Title: ELECTROLYSIS CELL FOR GENERATING CHLORINE DIOXIDE

Abstract: A method for making chlorine dioxide, by passing an aqueous feed solution comprising sodium chlorite into a non-membrane electrolysis cell comprising an anode and a cathode, adjacent to the anode, while flowing electrical current between the anode and the cathode to electrolyze the aqueous feed solution and convert the halogen dioxide salt to halogen dioxide. The anode is preferably a porous anode through which the aqueous feed solution passes to maximize the conversion of chlorite to chlorine dioxide.

Classifications:

International (IPC 8-9): A47L15/00 A47L15/42 A47L15/44 A61L2/03 A61L2/18 B01D39/16 B01D39/20 B08B3/00 B08B7/04 B08B9/20 C01B7/00 C01B7/01 C02F1/42 C02F1/46 C02F1/461 C02F1/467 C02F1/76 C11D1/72 C11D11/00 C11D17/00 C11D17/04 C11D17/06 C11D17/08 C11D3/02 C11D3/06 C11D3/08 C11D3/10 C11D3/20 C11D3/33 C11D3/37 C11D3/386 C11D3/39 C11D3/395 C11D3/48 C11D3/50 C11D7/10 C25B1/26 C25B1/30 C25B11/03 C25B11/04 C25B15/00 C25B15/02 C25B15/08 C25B9/00 C25B9/04 C25B9/06 C25D17/00 D06F35/00 D06F39/02 E04H4/12 (Advanced/Invention); C02F1/28 C02F1/42 C02F1/461 C02F1/467 C02F9/00 C25B1/26 (Advanced/Non-invention); A47L15/00 A47L15/42 A61L2/02 C02F1/461 C11D11/00 C11D17/00 C11D3/02 C11D3/38 C11D3/395 C25B1/00 C25B15/00 D06F35/00 (Core/Invention); C02F1/28 C02F1/42 C02F9/00 (Core/Non-invention)

International (IPC 1-7): A47L0/00 A47L15/00 A47L15/42 A47L15/44 A61L2/18 B01D39/16 B01D39/20 B08B7/04 B08B9/20 B23H11/00 C01B7/00 C01B7/01 C02F1/42 C02F1/46 C02F1/461 C02F1/467 C02F1/76 C11D1/00 C11D1/72 C11D17/00 C11D17/04 C11D17/06 C11D17/08 C11D3/02 C11D3/06 C11D3/08 C11D3/10 C11D3/20 C11D3/33 C11D3/37 C11D3/386 C11D3/395 C11D3/48 C11D3/50 C25B1/24 C25B1/26 C25B11/03 C25B11/04 C25B15/00 C25B15/02 C25B15/08 C25B9/00 C25B9/04 C25C1/24 C25C7/00 C25D17/00 C25F7/00 D06F35/00 D06F39/02 E04H4/12

CPC: A47L15/4208 A47L15/4445 Y02W10/37 C02F2201/008 C02F2201/009 A47L15/0002 C02F2201/4613 C02F2209/05 D06F35/001 A47L15/4238 A47L2601/06 A61L2/035 C02F1/4674 C02F2201/46165 C11D3/046 C11D3/3953 C11D3/3956 C11D11/0023 C11D11/0064 C11D11/007 C11D17/003 D06F35/003 D06F35/004 C02F1/46104 C02F1/283 C02F1/42 C02F9/00 C02F2001/46133 C02F2001/46161 C02F2101/103 C02F2201/4611 C02F2201/4618 A47L15/0015 A47L15/4291 Y02B40/44 C02F1/001 C02F2001/422 C02F2001/425 C02F2001/46138 C02F2001/46152 C02F2103/026 C02F2103/42 C02F2201/003 C02F2201/46115 C02F2209/42 C02F2303/04 C02F2307/04 C02F2307/06 A61L2/18 A61L2202/11 C11D3/386 Y02A20/212

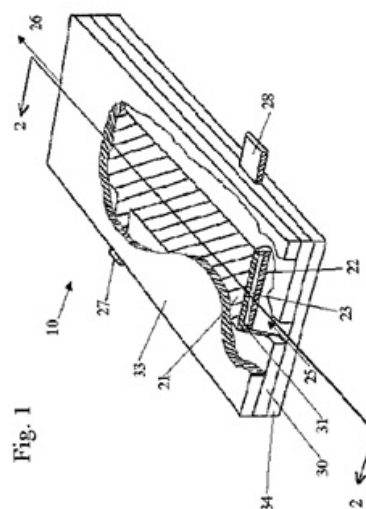


Fig. 1

European: A47L15/00A A47L15/00A10 A47L15/42F2 A47L15/42R A61L2/03E A61L2/18 C02F1/00D4 C02F1/461B C02F1/467B2 C11D11/00B10 C11D11/00B2D C11D11/00B8 C11D17/00B6 C11D3/04S C11D3/386 C11D3/395D C11D3/395H D06F35/00A D06F35/00C D06F35/00D K47L15/42A6 K47L15/44D K47L601/06 K61L202/110 M02F1/00D M02F1/28D M02F1/42 M02F1/42B M02F1/42D M02F1/461B2J M02F1/461B2J2 M02F1/461B2L M02F1/461B2L2B M02F1/467B2 M02F101/10B M02F103/02D M02F103/42 M02F201/00D2 M02F201/00I M02F201/00M M02F201/00P M02F201/461B10B M02F201/461B12 M02F201/461B2 M02F201/461B4 M02F201/461B6B2 M02F209/05 M02F209/42 M02F303/04 M02F307/04 M02F307/06 M02F9/00 Y02B40/44

US: 134/111 134/111S 134/113 134/113S 134/115 134/115.00RS 134/115R 134/18 134/18P 134/18S 134/25.2 134/25.200P 134/25.200S 134/26 134/26S 134/4 134/40 134/40S 134/42 134/42S 134/57 134/57.00DS 134/57D 134/58.00D 134/58.00DP 134/58D 134/93 134/93S 134/95.2 134/95.200S 134/99.2 134/99.200S 204/228.1 204/228.6 204/229.2 204/229.4 204/229.6 204/232 204/237 204/238 204/242 204/242S 204/271 204/275.1 204/275.100P 204/275.100S 204/276 204/278.5 204/278.500S 205/499 205/500 205/500S 205/556 205/5618 205/701 205/742 205/742S 205/744 205/744S 206/524.1 206/524.100S 510/218 510/218S 510/220 510/224 510/224S 510/226 510/226S 510/298 510/367 510/375 510/379 510/380 510/382 510/445 510/446 510/480 510/514

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Priority:

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US20010947846	20010906	US20010027667	20011221	EP20020742482	20020215
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US20070903613	20070924				

Probable Assignee: HELEN OF TROY LTD

Assignee(s): (std): BALLAS JULIA E ; BRETL DONALD S ; COLLIAS DIMITRIS I ; COLLIAS DIMITRIS IOANNIS ; DRZEWIECKI PAUL J ; PROCTER AND GAMBLE ; MOESE ROSA LAURA ; RASMUSSEN CRAIG MERILLAT ; NESBITT DANIEL FREDERICK ; PRICE KENNETH N ; SCHEPER WILLIAM M ; PROCTER AND GAMBLE CO ; SHOWELL MICHAEL S ; HONG CHARLES A ; MITCHELL MICHAEL D ; RASMUSSEN CRAIG M ; TREMBLAY MARIO ELMEN ; SMITH GRAEME DOUGLAS TELFER ; TREMBLAY MARIO E ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; WAUGH KEVIN L ; CHIAO I CHUN J ; PUR WATER PURIFICATION PROD ; MITCHELL MICHAEL DONOVAN ; NESBITT DANIEL F

Assignee(s): HELEN OF TROY LTD ; HONG CHARLES ANDREW ; CHIAO I CHUN JENNIFER ; WAUGH KEVIN LINDSEY ; SHOWELL MICHAEL STANFORD ; TREMBLAY MARIO ELAM ; SCHEPER WILLIAM MICHAEL ; PRICE KENNETH NATHAN ; PUR WATER PURIFICATION PRODUCTS INC ; DRZEWIECKI PAUL JOSEPH ; BRETL DONALD STEPHEN ; BALLAS JULIA ELIZABETH

Inventor(s): (std): BALLAS JULIA E ; BRETL DONALD STEPHEN ; CA HUN ; CHIAO I CHUN J ; CM RASMUSSEN ; COLLIAS DIMITRIS I ; COLLIAS DIMITRIS IOANNIS ; DANIEL F NESBITT ; DIMITRIS IOANNIS COLLIAS ; HONG CHARLES ANDREW ; HUN M E TREMBLAY C M RASMUSSEN ; I CHUN JENNIFER CHIAO ; JULIA ELIZABETH BALLAS ; KENNETH NATHAN PRICE ; KEVIN LINDSEY WAUGH ; M E TREMBLAY C M RASMUSSEN C A HUN ; MARIO ELAM TREMBLAY ; MARIO ELMEN TREMBLAY ; ME TREMBLAY ; MIC TREMBLAY MARIO ELAM COLLIA ; MICHAEL DONOVAN MITCHELL ; MICHAEL STANFORD SHOWELL ; MITCHELL MICHAEL D ; MITCHELL MICHAEL DONOVAN ; MOESE ROSA LAURA ; NESBITT DANIEL F ; NESBITT DANIEL FREDERICK ; PAUL JOSEPH DRZEWIECKI ; PRICE KENNETH NATHAN ; WAUGH KEVIN L ; WAUGH KEVIN LINDSEY ; WILLIAM MICHAEL SCHEPER ; TREMBLAY MARIO E ; SCHEPER WILLIAM M ; PRICE KENNETH N ; PRICE KENNETH ; DRZEWIECKI PAUL JOSEPH ; DRZEWIECKI PAUL J ; CHIAO I CHUN JENNIFER ; BALLAS JULIA ELIZABETH ; BALLAS JULIA ; TREMBLAY M E ; RASMUSSEN C M ; MERILLAT RASMUSSEN CRAIG ; IOANNIS COLLIAS DIMITRIS ; HUN C A ; HONG CHARLES A ; ELAM TREMBLAY MARIO ; DONOVAN MITCHELL MICHAEL ; BRETL DONALD S ; CRAIG MERILLAT RASMUSSEN ; SHOWELL MICHAEL S ; SHOWELL MICHAEL STANFORD ; SMITH GRAEME DOUGLAS TELFER ; TREMBLAY MARIO ; TREMBLAY MARIO ELAM ; RASMUSSEN CRAIG M ; RASMUSSEN CRAIG MERILLAT ; SCHEPER WILLIAM ; SCHEPER WILLIAM MICHAEL ; TREMBLAY MARIO ELMEN

Inventor(s): WAUGH KEVIN ; SHOWELL MICHAEL ; TREMBLAY MARIO ELAM COLLIAS DIMITRIS IOANNIS ; TREMBLAY MARIO ELAM COLLIAS DIMITRIS IOANNIS NESBI ; TREMBLAY MARIO ELAM COLLIAS DIMITRIS IOANNIS NESBITT DANIEL F ; RASMUSSEN CRAIG ; MITCHELL MICHAEL ; M E TREMBLAY ; DONALD STEPHEN BRETL ; DRZEWIECKI PAUL ; HONG CHARLES ; COLLIAS DIMITRIS ; CHARLES ANDREW HONG ; CHIAO I CHUN ; C A HUN ; C M RASMUSSEN ; BRETL DONALD

Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP ; LEDGLEY CYNTHIA J ; DIMOCK STRATTON LLP ; YORQUEZ RAMIREZ MARIA ISABEL ; CLEMO NICHOLAS GRAHAM ; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION ; THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION ; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION WEST BLDG ; WAUGH KEVIN L ; ZERBY KIM W ; MILLER STEVEN W ; STEVEN W ; KEVIN L ; KIM W ; LEONARD W ; LARRY L ; ZERBY KIM WILLIAM ; MCCONIHAY JULIE A ; ROBINSON IAN S ; IAN S ; JULIE A ; KIM WILLIAM ; DINSMORE AND SHOHL LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TJ TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: ACIDIC COMPOSITIONS INCLUDING REDUCING AGENTS FOR ELIMINATION OF HARD WATER SCALE AND DECOLORIZATION OF METAL STAINS

Abstract: An acidic destaining composition for removing hard water and metal stains is disclosed. The composition comprises an acid in combination with a reducing agent and may preferably be formulated as a solid.

Classifications:

International (IPC 8-9): B08B3/08 B08B3/10 C02F5/08 C02F5/10 C11D17/00 C11D3/04 C11D3/20 C11D3/22 C11D3/32 C11D3/34 C11D7/08 C11D7/10 C11D7/26 C11D7/32 C11D7/34 C11D7/60 C23F14/02 (Advanced/Invention);

C02F5/08 C11D3/34 (Advanced/Non-invention)

CPC: C23F14/02 C02F5/08 C11D3/042 C11D3/046 C11D3/2034 C11D3/2058 C11D3/2065 C11D3/2075 C11D3/2086 C11D3/2089 C11D3/2096 C11D3/225 C11D3/323 C11D3/3427 C11D3/3472 C11D7/08 C11D7/10 C11D7/261 C11D7/265 C11D7/267 C11D7/3272 C11D7/34

US: 1/1 134/19 510/109 510/191 510/218 510/221 510/363

PatBase - US2013319467_AA



Family:

Publication number	Publication date	Application number	Application date
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US9103038 BB	20150811	US20120482289	20120529
WO13181150 A1	20131205	WO2013US42887	20130528

Priority:

US20120482289 20120529 WO2013US42887 20130528

Probable Assignee: ECOLAB USA INC

Assignee(s): (std): BERGERSON JENNIFER ; ECOLAB USA INC ; MOHS THOMAS R

Inventor(s): (std): BERGERSON JENNIFER ; MOHS THOMAS R

Agent(s): GODEMEYER BLUM LENZE PATENTANWALTE PARTNERSCHAFT MBB; MCKEE VOORHEES AND SEASE PLC; SORENSEN ANDREW D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FOAM DISPENSER, HOUSING AND STORAGE HOLDER THEREFOR

Abstract: A foam dispenser comprises a housing having an opening, a fluid reservoir placed in the opening of the housing, a plug connected to the fluid reservoir in the opening, and a foam pump, comprising an air pump, a fluid pump, a closable supply to the air pump, a nozzle, and a movable operating part, wherein the foam pump dispenses a quantity of foam through the nozzle upon actuation of the operating part in a direction of pumping, wherein the foam pump and the fluid reservoir are combined into a removable storage holder. The foam dispenser comprises a coupling piece connected to the foam pump, with which the removable storage holder is fastened to the housing.

Classifications:

International (IPC 8-9): A47K5/12 A47K5/14 B05B1/02 B05B11/00 B05C17/01 B65D35/54 B65D83/76 B67D5/42 B67D5/58 B67D7/60 B67D7/76 (Advanced/Invention);

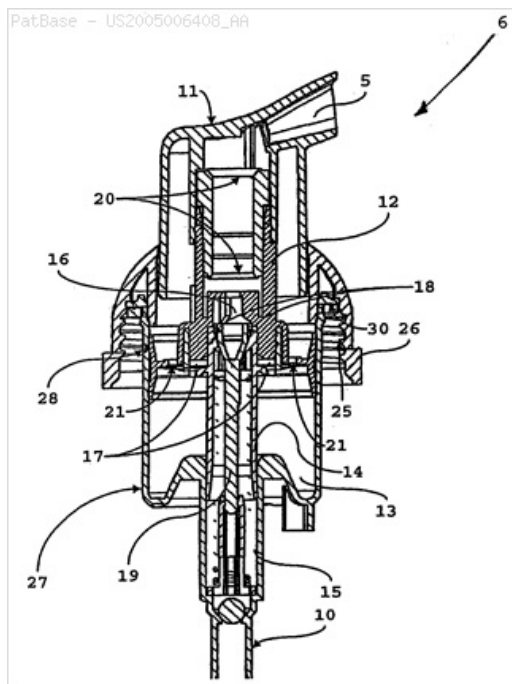
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B67D7/58 B67D7/76 (Core/Invention);

A47K B05B (Subclass/Invention)

International (IPC 1-7): A47K5/12 A47K5/14 B05B011/00 B05B1/02 B05B11/00 B05C17/01 B65D83/76 B67B7/00 B67D5/58

CPC: B05B11/00412 B05B11/3087 A47K5/14 B05B11/3001



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NL1023375 C2	20030807	NL20031023375	20030509
PL200818 B1	20090227	PL20020368281	20021111
PL200938 B1	20090227	PL20020368196	20021111
PL368196 A1	20050321	PL20020368196	20021111
PL368281 A1	20050321	PL20020368281	20021111
US2005006408 AA	20050113	US20040841944	20040507
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US7198177 BB	20070403	US20040841945	20040507
US7611033 BB	20091103	US20040841944	20040507
WO03041871 A1	20030522	WO2002NL00725	20021111
WO03059524 A1	20030724	WO2002NL00724	20021111
ZA200403501 A	20050523	ZA20040003501	20040507
ZA200403595 A	20050831	ZA20040003595	20040511
ZA200403595 A	20051130	ZA20040003595	20040511

Priority:

NL20011019340 20011112	NL20011019348 20011112	NL20011019348 20011211
NL20021020641 20020521	WO2002NL00724 20021111	WO2002NL00725 20021111

Probable Assignee: TECHNICAL CONCEPTS BENTFIELD BV**Assignee(s):** (std): BENTFIELD EUROP BV ; GANZEBOOM WILHELMUS EVERHARDUS ; TECHNICAL CONCEPTS BENTFIELD BV ; TECHNICAL CONCEPTS BENTFIELD B**Assignee(s):** BENTFIELD EUROPE BV ; BENTFIELD EUROPE B V**Inventor(s):** (std): GANZEBOOM WILHELMUS ; GANZEBOOM WILHELMUS EVERHARDUS ; GANZEBOOM WILHEMUS EVERHARDUS ; WILHEMUS EVERHARDUS GANZEBOOM**Inventor(s):** WILHELMUS EVERHARDUS GANZEBOOM**Agent(s):** SPRUSON AND FERGUSON; SIM AND MCBURNEY; TRASK BRITT; TRASKBRITT; TRASKBRITT PC**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**71) Family number: 30652255 (US2004111071A)**

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Title: Portable device for dispensing hand treatments**Abstract:** The present invention comprises an arm-mountable device for the discharge of hand treatment medications into the palm of the hand. In its simplest embodiment, the device is a compressible squeeze bladder with nozzle that is affixed to the underside of the wrist with a wristband. The contents of the bladder are ejected in a small burst to the palm of the hand upon initiation of compression of the bladder by the free hand. Features of various advanced embodiments include pressure multiplying squeeze bladders, plunger-based devices, and adjustable nozzles.**Classifications:****International (IPC 8-9):** A45F5/00 A61K9/22 A61M35/00 B65D35/38 B67D1/07 B67D5/64 B67D7/32 B67D7/34 B67D7/54 B67D7/84 (Advanced/Invention);

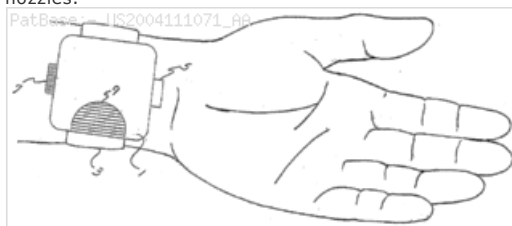
A45F5/00 A61K9/22 A61M35/00 B65D35/24 B67D1/00 B67D7/32

B67D7/42 B67D7/84 (Core/Invention);

A61M (Subclass/Invention)

International (IPC 1-7): A45F5/00 A61M35/00 B67D1/07 B67D5/32 B67D5/33 B67D5/378 B67D5/64**CPC:** A45D34/00 A45F2003/006 A45F2005/008 A47K5/122

A61M35/003

European: A45D34/00 A47K5/122 A61M35/00B K45F3/00E K45F5/00W**US:** 222/1 222/175 222/192 222/212 222/213 222/490 222/491 222/494 224/148.6 604/310 604/310P 604/311 604/890.1 604/890.100S**Family:**

Publication number	Publication date	Application number	Application date
US2004111071 AA	20040610	US20020314825	20021209
US2004162534 AA	20040819	US20030729757	20031205
US2005124945 AA	20050609	US20040915720	20040810
US2007088298 AA	20070419	US20060543537	20061005
US2008067193 AA	20080320	US20070983202	20071107
US7135011 BB	20061114	US20030729757	20031205
US7316332 BB	20080108	US20040915720	20040810
WO04052425 A2	20040624	WO2003US39048	20031208
WO04052425 A3	20041104	WO2003US39048	20031208
WO04052425 B1	20050106	WO2003US39048	20031208

Priority:

US20020314825	20021209	US20030515718P	20031030	US20030515775P	20031030
US20030515793P	20031030	US20030515794P	20031030	US20030729757	20031205
US20040915720	20040810	US20050729757	20051205	US20060543537	20061005
US20070983202	20071107				

Probable Assignee: POWERS JEFFREY L**Assignee(s):** (std): DAVIS DENNIS W ; DAVIS DENNIS WILLARD ; POWERS JEFFREY L ; POWERS JEFFREY LEWIS ; THIMM DAVID PAUL ; STENZ JAMES MARVIN ; THIMM DAVID P ; STENZ JAMES M ; PURGO CREATIONS INC**Assignee(s):** PURGO CREATIONS INC A MICHIGAN CORP**Inventor(s):** (std): DAVIS DENNIS W ; DAVIS DENNIS WILLARD ; POWERS JEFFREY L ; POWERS JEFFREY LEWIS ; STENZ JAMES M ; STENZ JAMES MARVIN ; THIMM DAVID P ; THIMM DAVID PAUL**Inventor(s):** THIMM DAVID ; STENZ JAMES ; POWERS JEFFREY ; DAVIS DENNIS**Agent(s):** DENNIS W DAVIS**Designated states:** AT BE BG CH CN CY CZ DE DK EE ES FI FR GB GR HU IE IT JP LU MC NL PT RO SE SI SK TR**72) Family number: 50939256 (DE102010048565A1)**

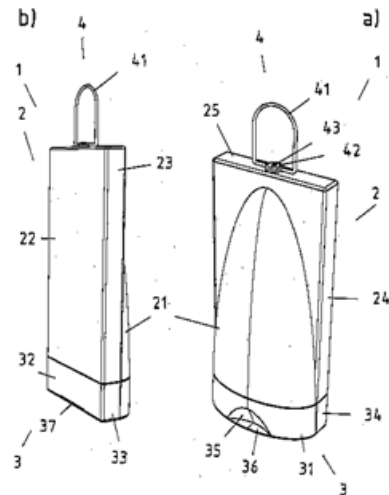
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Title: PLASTIC PACKAGE E.G. TOILETRY BOTTLE HAS HOLLOW CASE WITH GAS PASSAGE COMPRISING SEMIPERMEABLE LIQUID-TIGHT DIAPHRAGM VALVE FOR PRESSURE AND TEMPERATURE COMPENSATIONS IN CASE**Abstract:** The plastic package (1) has hollow case (2) with gas passage comprising semipermeable liquid-tight diaphragm valve for pressure and temperature compensations in case. The bottom structure (3) of hollow case is in the form of cone shape. The removal opening in bottom structure is sealed by cap (36).**Classifications:****International (IPC 8-9):** B65D1/02 B65D1/06 B65D23/00 B65D23/10

B65D25/22 B65D47/04 (Advanced/Invention)

CPC: B65D25/22 B65D77/225**European:** B65D25/22 B65D77/22D

Fig. 1



12 / 15

Family:

Publication number	Publication date	Application number	Application date
DE102010048565 A1	20120419	DE201010048565	20101018

Priority:

DE201010048565 20101018

Probable Assignee:

HIDDE

Assignee(s): (std):

HIDDE AXEL R ; KLOSE ODO

Assignee(s):

HIDDE ; KLOSE

Inventor(s): (std):

HIDDE AXEL R DR ING ; KLOSE ODO PROF

Inventor(s):

HIDDE AXEL R ; KLOSE ODO

73) Family number: 56897258 (US2014197196A)

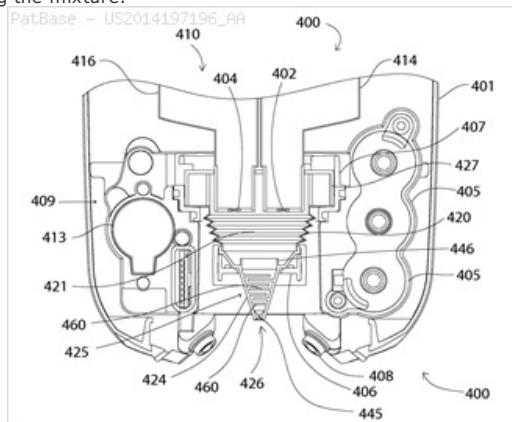
© PatBase

Title: TWO-LIQUID DISPENSING SYSTEMS, REFILLS AND TWO-LIQUID PUMPS

Abstract: Exemplary embodiments of dispensing systems for dispensing mixtures of multiple liquids, refill units and pumps for such refill units and dispensers are disclosed herein. One refill unit includes a first container and a second container. The refill unit includes a first pump chamber that is associated with the first container and a second pump chamber that is associated with the second container. The first and second pump chambers include a liquid inlet valve and a liquid outlet valve. Expanding the first and second pump chambers draws liquid into the first and second pump chambers through the liquid inlet valves and compressing the first and second pump chambers forces liquid through the liquid outlet valves into a mixing chamber located downstream of the liquid outlet valves. The mixing chamber is formed at least in part by a flexible membrane. The refill unit also includes an outlet nozzle for dispensing the mixture.

Classifications:

International (IPC 8-9): A47K5/12 A47K5/14 B01F15/00 B01F15/02 B65D83/00 B67D1/00 B67D7/70 B67D7/78 F04B43/08 (Advanced/Invention)
CPC: A47K5/14 A47K5/1207 A47K5/1208 B01F15/0085 B01F15/0087 B01F15/0237 B01F15/029
US: 222/136 222/145.5 222/52



Family:

Publication number	Publication date	Application number	Application date
AU2014207859 AA	20150827	AU20140207859	20140102
AU2014207859 BB	20180607	AU20140207859	20140102
BR112015016870 A2	20170711	BR20151116870	20140102
CA2897796 AA	20150709	CA20142897796	20140102
CN104936497 A	20150923	CN201480004866	20140102
DE602014011199 D1	20170817	DE201460011199T	20140102

EP2945517 A1	20151125	EP20140701132	20140102
EP2945517 B1	20170628	EP20140701132	20140102
JP2016510291 T2	20160407	JP20150552663T	20140102
MX2015009088 A1	20150928	MX20150009088	20140102
US2014197196 AA	20140717	US20130787326	20130306
US9655479 BB	20170523	US20130787326	20130306
WO14113218 A1	20140724	WO2014US10008	20140102
WO14113218 A4	20140918	WO2014US10008	20140102

Priority:

US20130752686P 20130115 US20130787326 20130306 EP20140701132 20140102
WO2014US10008 20140102

Probable Assignee: GOJO IND INC

Assignee(s): (std): CIAVARELLA NICK E ; GOJO IND INC ; TEDEROUS CORY J

Assignee(s): GOJO IND INC AKRON ; PNC BANK NATIONAL ASSOCIATION AGENT AS

Inventor(s): (std): CORY J TEDEROUS ; NICK E CIAVARELLA ; TEDEROUS CORY J ; CIAVARELLA NICK E

Inventor(s): CIAVARELLA NICK E SEVEN HILLS ; TEDEROUS CORY J STOW

Agent(s): COLLISON AND CO; SIM AND MCBURNEY; MARKS AND CLERK; TETZNER AND PARTNER MBB PATENT U RECHTSANWALTE; TETZNER MICHAEL; NAGAI YOSHIHISA; CALFEE HALTER AND GRISWOLD LLP; BONNER CHET J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TT TZ UA UG US UZ VC VN ZA ZM ZW

74) Family number: 54077258 (US2013146086A)

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Title: ACID REGENERATION OF ION EXCHANGE RESINS FOR INDUSTRIAL APPLICATIONS

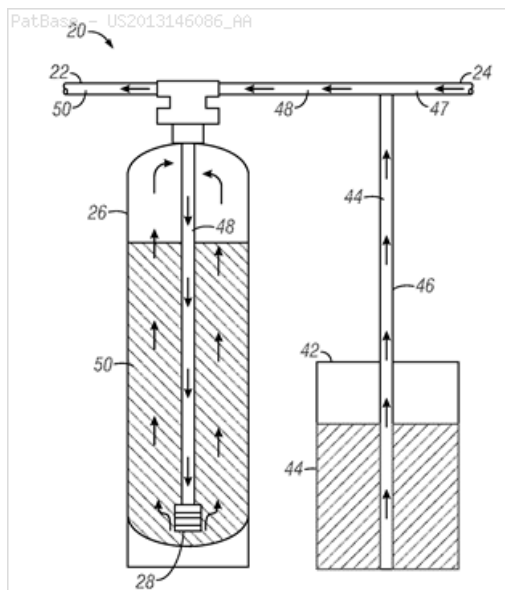
Abstract: Methods and systems for acid regeneration of ion exchange resins are disclosed. Acid resins designed for use in a variety of cleaning application using a water source use a treated, softened, acidic water source according to the invention. Various methods of using the softened acidic water generated by acid regenerate-able ion exchange resins are disclosed to beneficially reduce spotting, filming and scale buildup on treated surfaces, reduce and/or eliminate the need for polymers, threshold reagents and/or rinse aids, and using protons generated in the acidic water effluent for triggering events useful in various cleaning applications.

Classifications:

International (IPC 8-9): A47L15/24 A47L15/42 B01J19/24 B01J39/04 B01J39/05 B01J39/07 B01J39/08 B01J39/18 B01J39/19 B01J39/20 B01J47/04 B01J47/10 B01J47/14 B01J47/15 B01J49/00 B01J49/06 B01J49/09 B01J49/53 B01J49/75 B08B3/04 B08B3/14 C02F1/42 D06F39/00 (Advanced/Invention); A47L15/24 B01J39/08 (Advanced/Non-invention)

CPC: A47L15/241 C02F2209/00 B08B3/04 B01J39/043 B01J39/046 B01J49/0008 B01J49/0086 B01J47/145 B01J47/15 B01J39/19 A47L15/4229 B01J39/05 B01J39/07 B01J39/08 B01J39/20 B01J49/06 B08B3/14 C02F2001/425 C02F2209/005 C02F2209/06 C02F2303/16 D06F39/007 A47L15/4217 C02F1/42 B01J49/53 B01J49/75

US: 1/1 134/10 134/42 210/143 210/175 210/177 210/190 210/190 210/191 210/662 210/670 210/676 210/96.1 210/96.1



Family:

Publication number	Publication date	Application number	Application date
AU2012352341 AA	20140612	AU20120352341	20121212
AU2012352341 BB	20161208	AU20120352341	20121212
AU2012352343 AA	20140619	AU20120352343	20121212
AU2012352343 BB	20161103	AU20120352343	20121212
BR112014013957 A2	20170613	BR20141113957	20121212
BR112014013957 A8	20170613	BR20141113957	20121212
BR112014013957 A8	20170620	BR20141113957	20121212
BR112014014333 A2	20170613	BR20141114333	20121212
BR112014014333 A8	20170627	BR20141114333	20121212
BR112014014333 A8	20170613	BR20141114333	20121212
CA2858999 AA	20140611	CA20122858999	20121212
CA2859172 AA	20140612	CA20122859172	20121212
CN104159672 A	20141119	CN201280061475	20121212
CN104159673 A	20141119	CN201280061500	20121212
DE602012050818 D1	20181004	DE201260050818T	20121212
EP2790832 A1	20141022	EP20120857287	20121212
EP2790832 A4	20150527	EP20120857287	20121212
EP2790832 B1	20180905	EP20120857287	20121212

EP2790833 A1	20141022	EP20120858641	20121212
EP2790833 A4	20150527	EP20120858641	20121212
EP2875865 A1	20150527	EP20140197370	20121212
US2013146086 AA	20130613	US20120711843	20121212
US2013146087 AA	20130613	US20120711888	20121212
US2013192637 AA	20130801	US20130802870	20130314
US2013192638 AA	20130801	US20130802874	20130314
US2013192639 AA	20130801	US20130802915	20130314
US2016362308 AA	20161215	US20160179496	20160610
US2016375434 AA	20161229	US20160257456	20160906
US2017088442 AA	20170330	US20160376850	20161213
US2017136451 AA	20170518	US20170420706	20170131
US2017144145 AA	20170525	US20170427362	20170208
US2018008974 AA	20180111	US20170675922	20170814
US2018222774 AA	20180809	US20180948236	20180409
US9387471 BB	20160712	US20130802915	20130314
US9463455 BB	20161011	US20120711843	20121212
US9556043 BB	20170131	US20130802870	20130314
US9593028 BB	20170314	US20130802874	20130314
US9597679 BB	20170321	US20120711888	20121212
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US9919935 BB	20180320	US20160179496	20160610
US9963361 BB	20180508	US20160376850	20161213
US10052625 BB	20180821	US20160257456	20160906
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US10092898 BB	20181009	US20170675922	20170814
US10183288 BB	20190122	US20180948236	20180409
WO13090446 A1	20130620	WO2012US69280	20121212
WO13090448 A1	20130620	WO2012US69283	20121212

Priority:

US20110569829P	20111213	EP20120857287	20121212	US20120711843	20121212
US20120711888	20121212	WO2012US69280	20121212	WO2012US69283	20121212
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US20160179496	20160610	US20160257456	20160906	US20160376850	20161213
US20170420706	20170131	US20170427362	20170208	US20170675922	20170814
US20180948236	20180409				

Probable Assignee: ECOLAB USA INC

Assignee(s): (std): EVERSON TERRENCE P ; VOSS PETER ; TOETSCHINGER MARK ; TAN LYLIEN ; EVERSON TERRENCE ; WEN LI ; ECOLAB USA INC

Assignee(s): ECOLAB USA INC ST PAUL ; ECOLAB USA INC370 N. WABASHA STREETST. PAULMN55102US ; ECOLAB USA INC370 NORTH WABASHA STREETST. PAULMN55102US

Inventor(s): (std): KLOS TERRY J ; LEVITT MARK DENNIS ; LI WEN ; LYLIEN TAN ; MARK TOETSCHINGER ; PETER VOSS ; TAN LYLIEN ; ALOWONLE TOYIN ; EVERSON TERRENCE P ; TERRENCE P EVERSON ; TOETSCHINGER MARK ; WEN LI ; TREDER SARA ; VOSS PETER

Inventor(s): VOSS PETERUS ; WEN LIUS ; WEN LI WOODBURY ; VOSS PETER EAGAN ; TOETSCHINGER MARK MENDOTA HEIGHTS ; TAN LYLIEN MAPLEWOOD ; EVERSON TERRENCE P EAGAN ; TOETSCHINGER MARKUS ; EVERSON TERRENCE PUS ; TAN LYLIENUS

Agent(s): SPRUSON AND FERGUSON; BORDEN LADNER GERVAIS LLP; GODEMEYER BLUM LENZE WERKPATENT; GODEMEYER BLUM LENZE PATENTANWAELTE PARTNERSCHAFT MBB WERKPATENT; GODEMEYER BLUM LENZE PATENTANWAELTE PARTNERSCHAFT MBB WERKPATENT; MCKEE VOORHEES AND SEASE PLC; SORENSEN ANDREW D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

75) Family number: 63295260 (US2016244648A)

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Title: PRODUCTION OF HIGHLY IONIZED ALKALINE WATER USING A COMBINATION OF REDUCING METALS AND REDUCTIVE MINERALS

Abstract: Methods and systems are provided for producing ionized alkaline solutions (e.g. ionized alkaline water) that exhibit long-term stability when stored at room temperature.

Classifications:

International (IPC 8-9): A01N59/06 A01N59/16 A01N59/20 A23F5/00

A23K50/48 A23L2/38 A23L2/52 A23L33/16 A61K33/00 A61K33/06

A61K33/08 A61K33/10 A61K33/24 A61K33/26 A61K33/30

A61K33/34 A61K45/06 B01D35/00 B01J8/02 C02F1/00 C02F1/20

C02F1/22 C02F1/461 C02F1/68 C02F1/70 C09K3/00 C11D11/00

C11D3/00 C11D3/04 F25C1/00 (Advanced/Invention);

C02F103/02 (Advanced/Non-invention)

CPC: A23L2/38 A23F5/00 B01J8/02 A61K33/00 C02F1/705

A23V2002/00 A23K50/48 A23L2/52 A23L33/16 A61K33/08

A61K33/24 A61K33/26 A61K45/06 C02F2103/026 C02F2305/04

C11D3/0005 A61K2300/00 C02F1/685 C02F1/20 F25C1/00

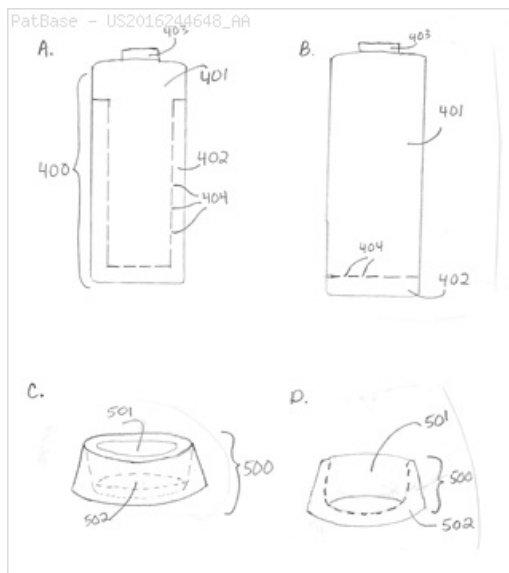
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C11D11/0023 C11D11/0017 C11D3/0073 C02F2305/00 A23K20/20

C11D3/046 C09K3/00 A61K33/06 A61K33/30 A61K33/34 C11D3/044

C02F1/22 C02F1/482 C02F1/66 C02F1/688 F25C2400/08

US: 424/600



Family:

Publication number	Publication date	Application number	Application date
US2016244648 AA	20160825	US20150627313	20150220
US2017225981 AA	20170810	US20170498593	20170427
US9663691 BB	20170530	US20150627313	20150220
WO16133941 A1	20160825	WO2016US18141	20160217
WO18200296 A1	20181101	WO2018US28233	20180419

Priority:

US20150627313 20150220 US20170498593 20170427

Probable Assignee: ELECTROLYZED INNOVATIONS LLC

Assignee(s): (std): ELECTROLYZED INNOVATIONS LLC

Inventor(s): (std): ADAMS PHILIP

Agent(s): WHITHAM CURTIS AND COOK PC; WHITHAM MICHAEL E ET AL; WHITHAM MICHAEL E

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

76) Family number: 30153261 (US5029624A)

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Title: CLOSED GRANULAR CHEMICAL HANDLING SYSTEM

Abstract: A closed granular chemical handling system comprising a dispensing valve and a receiving valve. The dispensing valve and the receiving valve are automatically opened when the valves are coupled together, and are automatically closed when the valves are uncoupled from one another. The valves are configured so that the receiving valve always is the first to open and the last to close. The valves are driven together by a camming structure having a neutral portion that acts as a delay between the opening and closing of both valves so as to allow granular material to flow from between the valves through the receiving valve.

Classifications:

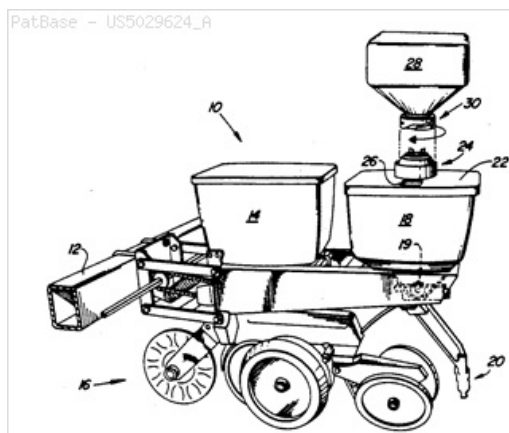
International (IPC 8-9): A01C15/00 A01C7/06 A01M7/00 A01M9/00 B05B7/14 B65B29/10 F16L37/252 F16L37/34 (Advanced/Invention); A01C15/00 A01M7/00 A01M9/00 B05B7/14 B65B29/00 F16L37/00 F16L37/28 (Core/Invention)

International (IPC 1-7): A01B49/06 A01C15/00 A01C23/00 A01C7/06 A01C7/08 A01M7/00 A01M9/00 B01F13/10 B05B7/14 B65B1/06 B65B29/10 B65B37/00 B65D47/12 B65D47/24 B65D83/06 B65D88/54 B65G65/30 B65G65/48 B67D5/0 B67D5/00 F16K13/00 F16K29/00 F16K3/0 F16K3/00 F16K31/44 F16K35/14 F16L29/00 F16L37/36

CPC: Y10T137/87957 Y10T137/87941 B05B7/1404 A01C15/006 A01M7/0092 A01M9/0084 F16L37/252 F16L37/34

European: A01C15/00F2 A01M7/00G1 A01M9/00F B05B7/14A F16L37/252 F16L37/34

US: 137/614.02 137/614.04 141/1 141/18 141/2 141/21 141/346 141/348 141/349 141/351 141/363 141/364 141/383 141/384 239/148 239/651



Family:

Publication number	Publication date	Application number	Application date
AR247965 A1	19950531	AR19900316436	19900323
AT118962 E	19950315	AT19900107470T	19900320
AT128806 E	19951015	AT19900107469T	19900320
AT92250 E	19930815	AT19900105177T	19900320
AU199051226 A1	19900927	AU19900051226	19900309
AU199219557 A1	19920910	AU19920019557	19920709

AU199219558 A1	19920924	AU19920019558	19920709
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US5224527 A	19930706	US19920891889	19920723
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Priority:

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US19930072800 19930604		

Probable Assignee: AMVAC CHEMICAL CORP

Assignee(s): (std): AMERICAN CYANAMID CO US ; DEERE AND CO ; DEERE AND CO Y AMERICAN CYA ; DEPAUW RICHARD A ; DEERE AND CO Y AMERICAN CYANAMID CO ; DEERE AND CO US ; BROWN DOUGLAS P ; DEERE AND COMPANY Y AMERICAN CYA ; NEYRINCK RICHARD M ; MCCUNN MYRON L ; HOFFMAN JEFFREY A ; TENNE FRANK D ; LANDPHAIR DONALD K ; HOLVERSON PATRICK D ; WOODRUFF KEITH ; LUNDIE WILLIAM R ; AMERICAN CYANAMID CO

Assignee(s): AMERICAN CYANAMID CO STAMFORD CONN US ; AMERICAN CYANAMID ; DIIR END KOMPANI ; HOFFMAN JEFFREY ALAN ; LANDPHAIR DONALD KEITH ; NEYRINCK RICHARD MARTIN ; TENNE FRANK DOUGLAS ; LUNDIE WILLIAM ROBERT ; DEPAUW RICHARD ARTHUR ; MCCUNN MYRON LEE ; HOLVERSON PATRICK DAVID ; AMVAC CHEMICAL CORP ; BASF AG ; DEERE AND COMPANY ; DEERE AND COMPANY US ; DEER AND CO ; AMERIKAN TSANAMID KOMPANI ; DEERE AND CO MOLINE ILL US ; BROWN DOUGLAS PAUL ; DEERE AND COMPANY Y AMERICAN CYANAMID COMPANY ; AMERICAN CYANAMID CO WAYNE N J US ; AMERICAN CYANAMID COMPANY ; AMERICAN CYANAMID COMPANY US ; AMERICAN CYANAMID CORP

Inventor(s): (std): ARTHUR DEPAUW RICHARD ; BROWN DOGLAS PAUL ; BROWN DOUGLAS P ; BROWN DOUGLAS PAUL ; BROWN DOUGLAS PAUL US ; DEPAUW RICHARD A ; DEPAUW RICHARD ARTHUR ; DEPAUW RICHARD ARTHUR US ; HOFFMAN JEFFREY A ; HOFFMAN JEFFREY ALAN ; HOFFMAN JEFFREY ALAN US ; HOLVERSON PATRICK D ; HOLVERSON PATRICK DAVID ; HOLVERSON PATRICK DAVID US ; KEITH LANDPHAIR DONALD ; LANDPHAIR DONALD K ; LANDPHAIR DONALD KEITH ; LANDPHAIR DONALD KEITH US ; LEE MCCUNN MYRON ; LUNDIE WILLIAM R ; LUNDIE WILLIAM ROBERT ; NEYRINCK RICHARD MARTIN US ; PATRICK DAVID HOLVERSON ; PAUL BROWN DOUGLAS ; PAUW RICHARD ARTHUR DE ; RICHARD ARTHUR DEPAUW ; RICHARD MARTIN NEYRINCK ; ROBERT LUNDIE WILLIAM ; TENNE FRANK D ; TENNE FRANK DOUGLAS ; TENNE FRANK DOUGLAS US ; WILLIAM ROBERT LUNDIE ; WOODRUFF KEITH ; WOODRUFF KEITH ; WOODRUFF KEITH US ; JEFFREY ALAN HOFFMAN ; FRANK DOUGLAS TENNE ; DOUGLAS PAUL BROWN ; DONALD KEITH LANDPHAIR ; UILYAM ROBERT LUNDAJ ; RICHARD MARTIN NEJRINK ; RICHARD ARTUR DEPAU ; RICHARD ARTHUR DE PAUW ; PATRIK DEVID KHOLVERSON ; NEYSINCK RICHARD M ; MIRON LII MAKKUNN ; MC CUNN MYRON L ; KEJT VUDRUFF ; KEITH WOODRUFF ; KEITH WOODROFF ; FRENK DUGLAS TENNI ; DZHEFRI ALAN KHOFFMAN ; DUGLAS POL BRAUN ; DOUGLAS TENNE FRANK ; DONALD KEJT LENDFEJR ; DAVID HOLVERSON PATRICK ; LUNDIE WILLIAM ROBERT US ; MARTIN NEYRINCK RICHARD ; MCCUNN MYRON L ; MCCUNN MYRON LEE ; MCCUNN MYRON LEE US ; MYRON LEE MCCUNN ; NEYRINCK RICHARD M ; NEYRINCK RICHARD MARTIN ; ALAN HOFFMAN JEFFREY

Inventor(s): NEYRINCK RICHARD MARTIN PORT BYRON ILLINOIS... ; LUNDIE WILLIAM ROBERT EAST MOLINE ILLINOIS... ; DE PAUW RICHARD ARTHUR ; NEYRINCK RICHARD MARTIN PORT BYRON ILLINOIS 61275 US ; BROWN DOGLAS PAUL BETTENDORF IOWA 52722 US ; WOODRUFF KEITH MOUNTAINSIDE NEW JERSEY 07849 US ; TENNE FRANK DOUGLAS IVYLAND PENNSYLVANIA 18974 US ; NEYRINCK RICHARD MARTIN PORT BYRON ILLINOIS 61275 ; MCCUNN MYRON LEE ORION ILLINOIS 61273 US ; LUNDIE WILLIAM ROBERT EAST MOLINE ILLINOIS 61244 U ; LANDPHAIR DONALD KEITH BETTENDORF IOWA 52722 US ; HOLVERSON PATRICK DAVID AHWATUKEE ARIZONA 85044 US ; HOFFMAN JEFFREY ALAN WESTERVILLE OHIO 43081 US ; DEPAUW RICHARD ARTHUR MOLINE ILLINOIS 61265 US ; BROWN DOUGLAS PAUL BETTENDORF IOWA 52722 US ; LUNDIE WILLIAM ROBERT EAST MOLINE ILLINOIS 61244 US

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BORDEN LADNER GERVAIS LLP

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

77) Family number: 60956272 (WO15180757A1) © PatBase

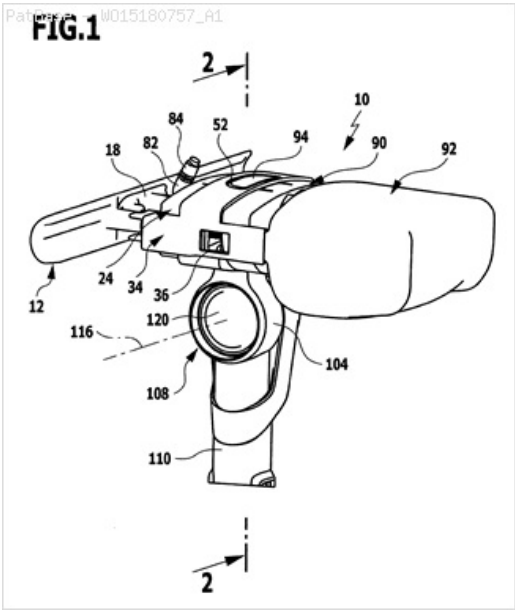
Title: PORTABLE HARD-SURFACE CLEANING APPLIANCE

Abstract: A portable hard-surface cleaning appliance (10; 150; 250) comprising a spray nozzle (84; 204; 262) for spraying cleaning fluid onto a hard surface to be cleaned, a reservoir (92; 190; 290) for the cleaning fluid, a manually drivable pump (64; 182; 261) comprising a first pump part (70; 184; 259) which is movable back and forth in a pumping direction relative to a second pump part (65; 186; 260) for conveying cleaning fluid from the reservoir to the spray nozzle, and a mop pad support (12; 152; 252) which is coupled to the first pump part (70; 184; 259) and manually moveable relative to the second pump part (65; 186; 260) and on which a mop pad can be detachably fastened for distributing the cleaning fluid on the hard surface. To reduce the risk of jamming of the first pump part, it is proposed for the mop pad support (12; 152; 252) to be moveably mounted on a guide part (34; 166; 256) via a support part (24; 154; 254) and to be moveable relative to the first pump part (70; 184; 259).

Classifications:

International (IPC 8-9): A47L13/22 (Advanced/Invention)

CPC: A47L13/22 A47L1/08 A47L11/4083 A47L11/4088



Family:

Publication number	Publication date	Application number	Application date
CN106413502 A	20170215	CN201480079186	20140527
DE502014009049 D1	20180830	DE201450009049T	20140527
EP3148391 A1	20170405	EP20140727192	20140527
EP3148391 B1	20180801	EP20140727192	20140527
EP3148391 B8	20181024	EP20140727192	20140527
WO15180757 A1	20151203	WO2014EP60915	20140527

Priority:

EP20140727192 20140527 WO2014EP60915 20140527

Probable Assignee: ALFRED KAERCHER SE AND CO KG

Assignee(s): (std): ALFRED KAERCHER GMBH AND CO KG ; ALFRED KAERCHER SE AND CO KG ; KAERCHER GMBH AND CO ALFRED KG

Assignee(s): ALFRED KARCHER GMBH AND COKG

Inventor(s): (std): BARTEL SANDRA ; GUEERS MATTHIAS ; MUELLER ANDREAS ; STEWEN CHRISTIAN ; MULLER ANDREAS ; GUERS MATTHIAS

Agent(s): HOEGER STELLRECHT AND PARTNER PATENTANWAELTE MBB; HOEGER STELLRECHT AND PARTNER PATENTANWAELTE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

78) Family number: 13272276 (US5507414A) © PatBase

Title: Liquid cleaner dispensing apparatus

Abstract: An apparatus is provided for dispensing liquid cleaning substances and is particularly useful for dispensing dishwashing detergents. The device is formed with a base and a means for supporting a liquid detergent container above the base. This support may take the form of an encircling wall that defines an enclosure for a pump style detergent container having a laterally projecting spout mounted in its mouth, or an upright stanchion that holds a detergent container at an elevated level above the base. In either event the device is provided with a concave, upwardly facing liquid detergent receptacle located atop the base and directly beneath the dispensing orifice of the liquid detergent container. A sponge support is formed atop the liquid detergent receptacle. The sponge support may include a mesh screen and is hinged relative to the base to rotate about a horizontal axis. The sponge support may be moved between a lowered, horizontal disposition directly above the liquid detergent receptacle and a raised disposition out of vertical alignment between the dispensing orifice and the liquid detergent receptacle. The sponge support provides a convenient place for storing a kitchen sponge, and also allows the sponge to dry out.

Classifications:

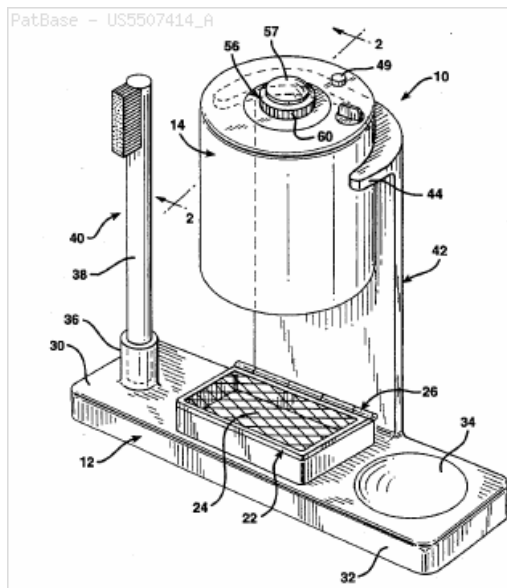
International (IPC 8-9): A47K5/12 (Advanced/Invention); A47K5/00 (Core/Invention)

International (IPC 1-7): B67D1/16

CPC: A47K5/1214

European: A47K5/12D2

US: 211/65 222/108 222/173 222/181.1 222/181.3 222/184 222/192 222/510 222/518 4/559



Family:

Publication number	Publication date	Application number	Application date
US5507414 A	19960416	US19940219085	19940328
US5678733 A	19971021	US19960631961	19960415

Priority:

US19940219085 19940328 US19960631961 19960415

Probable Assignee:

ONG BON S

Assignee(s): (std):

ONG BON S

Inventor(s): (std):

ONG BON S

79) Family number: 65330280 (US2017232300A)

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Title: SMART DEVICE

Abstract: An Internet of Thing (IoT) device includes a camera coupled to a processor; and a wireless transceiver coupled to the processor. Blockchain smart contracts can be used with the device to facilitate secure operation.

Classifications:

International (IPC 8-9): A42B3/04 A61B5/00 A61B5/0205

A61B5/0404 A61B5/11 A63B24/00 A63B43/00 A63B60/46

A63B69/36 A63B69/38 A63B71/00 A63B71/06 A63B71/14 A63F11/00

A63F13/00 A63F13/211 A63F13/212 B33Y10/00 B33Y80/00

B60Q1/00 G01L5/00 G01L5/10 G01L5/22 G01M17/02 G01M17/06

G01N29/00 G01P15/08 G01P15/18 G06F1/16 G06F17/30 G06F19/00

G06F3/00 G06F3/01 G06K19/02 G06K19/07 G06K9/00 G06K9/78

G06N5/04 G06N99/02 G06Q20/36 G06Q20/40 G06Q40/08

G09B19/00 G16H20/30 G16H30/20 G16H40/60 G16H40/63

G16H40/67 G16H50/20 H04B1/3827 H04L9/32 H04N5/225 H04N7/18

H04Q9/00 H04W4/38 H04W84/18 (Advanced/Invention);

A42B3/04 A61B5/00 A61B5/01 A61B5/024 A61B5/0402 A61B5/0488

A61B5/053 A61B5/055 A61B5/11 A61B5/22 A63B21/072 A63B69/00

A63B69/02 A63B69/06 A63B69/16 A63B69/36 A63B71/08

A63B71/10 A63B71/12 A63B71/14 G06K9/62 G16H50/20 H04B1/04 H04B1/38 H04L29/08 H04N7/18 H04W84/18

H04W88/02 (Advanced/Non-invention)

CPC: A63B2230/04 A63B2230/50 A63B24/0006 A63B2208/0204 A63B24/0021 H04B1/38 G06K9/6277 H04N7/185

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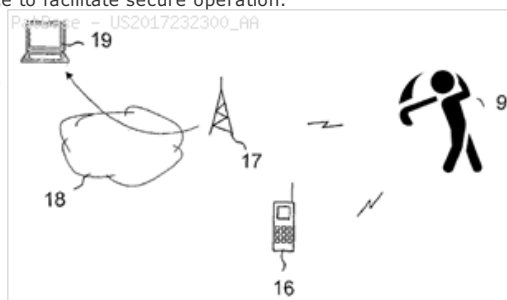
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G01N29/4436 G01N29/0258 G01N29/044 G06F3/013 G06F3/014 G16H30/20 A42B3/0433 G06F3/017 H04B1/04

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Family:

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AU2009302806 BB	20150618	AU20090302806	20091007
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AU2015227483 BI	20170105	AU20150227483	20150917
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US2012009396 AA	20120112	US20110082319	20110407
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Priority:

US20080103295P 20081007	US20080114744P 20081114	US20090159914P 20090313
AU20090302806 20091007	WO2009US05512 20091007	WO2009US59909 20091007
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Probable Assignee: ROSS TECHNOLOGY CORP

Assignee(s): (std): BLEECHER DOUGLAS ; HARSH PHILIP ; HURLEY MICHAEL ; JONES ANDREW K ; ROSS TECHNOLOGY CORP ; SIKKA VINOD K ; ROSS RUSSELL ; ROSS RUSSEL ; OTTO JAY PAUL ; ROSS TECH CORP ; ZIELKE DONALD

Assignee(s): MB FINANCIAL BANK NA

Inventor(s): (std): HARSH PHILIP ; HURLEY MICHAEL ; JONES ANDREW ; JONES ANDREW K ; BLEECHER DOUGLAS ; OTTO JAY PAUL ; ROSS RUSSEL ; ROSS RUSSELL ; SIKKA VINOD ; SIKKA VINOD K ; ZIELKE DONALD

Inventor(s): ANDREW K JONES ; VINOD K SIKKA ; RUSSELL ROSS ; PHILIP HARSH ; DONALD ZIELKE ; DOUGLAS BLEECHER ; MICHAEL HURLEY

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; BOESL RAPHAEL KONRAD; ROBERTSONS; PERKINS COIE LLP; SANDERCOCK COLIN G

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

81) Family number: 68878283 (US2018072445A)

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Title: TRACK SYSTEM FOR CREATING FINISHED PRODUCTS

Abstract: A track system includes a primary transport portion and a secondary transport portion along which a plurality of vehicles can be propelled. Each secondary transport portion includes a unit operation station for performing a transformation on a container or the contents therein.

Classifications:

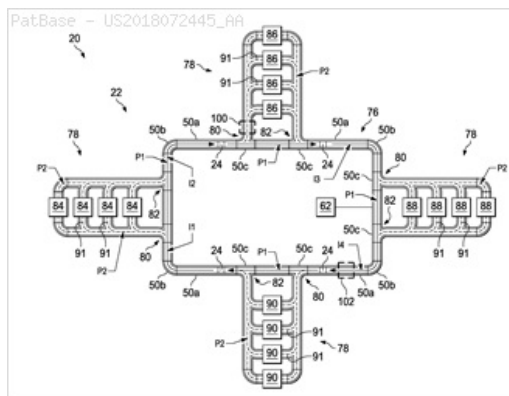
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G01G11/00 G01G19/03 G05B19/418 G06Q30/06 (Advanced/Invention)

CPC: B65B3/04 B65B65/006 B65G2201/0235 B65B7/00 B65B59/00

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B65G35/06 B65G47/642 B65G54/02



Family:

Publication number	Publication date	Application number	Application date
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CA3036074 AA	20190306	CA20173036074	20170908
CA3036076 AA	20190306	CA20173036076	20170908
US2018072445 AA	20180315	US20170698669	20170908
US2018073912 AA	20180315	US20170698691	20170908
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Priority:

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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; ROYCE DANIEL RICHARD ; BURKHARD RYAN ANDREW ; CACCIATORE JUSTIN THOMAS ; CAPECI SCOTT WILLIAM ; FIKES ELIZABETH MARIE ; GRANITZ MICHAEL ; LYMAN CHRISTOPHER ROBERT ; MOORE NATHAN E ; ORNDORFF JASON MATTHEW

Inventor(s): (std): BURKHARD RYAN ANDREW ; CACCIATORE JUSTIN THOMAS ; CAPECI SCOTT WILLIAM ; FIKES ELIZABETH MARIE ; GRANITZ MICHAEL ; LYMAN CHRISTOPHER ROBERT ; MOORE NATHAN E ; ORNDORFF JASON MATTHEW ; ROYCE DANIEL RICHARD

Agent(s): KIRBY EADES GALE BAKER; KREBS JAY A ET AL; KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

82) Family number: 55978284 (US2014069466A)

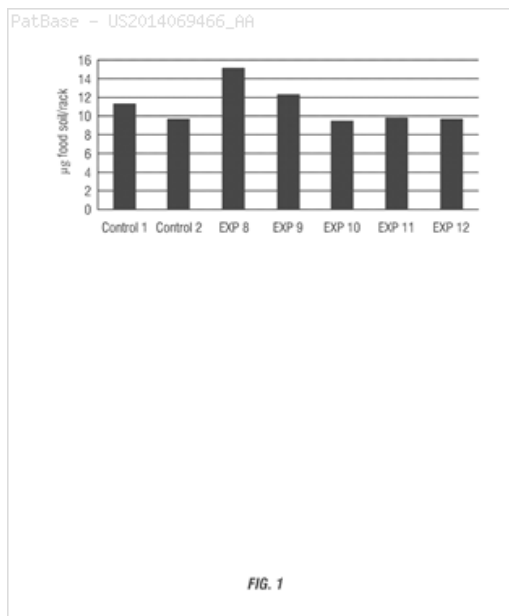
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Title: METHOD OF REDUCING SOIL REDEPOSITION ON A HARD SURFACE USING PHOSPHINOSUCCINIC ACID ADDUCTS

Abstract: Methods employing detergent compositions effective for reducing soil redeposition and accumulation on hard surfaces are disclosed. The detergent compositions employ phosphinosuccinic acid adducts in combination with an alkalinity source and gluconic acid or salts thereof, copolymers of acrylic acid and maleic acids or salts thereof, sodium hypochlorite, sodium dichloroisocyanurate or combinations thereof.

Classifications:

International (IPC 8-9): A01N25/30 A01N37/02 A01N37/16 A01N59/00 A01P1/00 A47L15/42 A61L2/18 B08B3/08 B08B9/20 C11D1/00 C11D1/34 C11D1/66 C11D1/72 C11D1/722 C11D1/83 C11D1/86 C11D11/00 C11D17/00 C11D3/00 C11D3/02 C11D3/04 C11D3/06 C11D3/08 C11D3/10 C11D3/20 C11D3/33 C11D3/36 C11D3/37 C11D3/39 C11D3/48 C11D3/60 C11D7/06 C11D7/12 C11D7/14 C11D7/22 C11D7/36 C23G1/14 (Advanced/Invention) **CPC:** C11D3/0036 C11D3/48 A61L2/186 C11D7/06 C11D7/12 C11D7/14 C11D7/36 A61L2/18 A01N37/02 A01N37/16 A01N59/00 C11D3/10 C11D3/365 C11D3/3947 C11D11/0064 C11D3/2082 C11D11/0029 C11D11/0035 C11D17/0047 C11D3/044 C11D3/08 **US:** 1/1 134/25.2 134/28 134/42 422/34 424/616 510/108 510/109 510/161 510/220 510/221 510/224 510/225 510/228 510/229 510/234 510/243 510/244 510/245 510/272 510/294 510/298 510/400 510/435 510/445 510/446 510/451 510/469 510/477 510/509 510/511



Family:

Publication number	Publication date	Application number	Application date
AU2013315902 AA	20140320	AU20130315902	20130904
AU2013315902 BB	20170209	AU20130315902	20130904
AU2017203073 AA	20170601	AU20170203073	20170509
AU2017203073 BB	20181004	AU20170203073	20170509
BR112015005698 A2	20170704	BR20151105698	20130904
CA2883394 AA	20150227	CA20132883394	20130904
CN104619821 A	20150513	CN201380047422	20130904
EP2895586 A1	20150722	EP20130837225	20130904
EP2895586 A4	20160615	EP20130837225	20130904
EP2986697 A1	20160224	EP20140784618	20140414
EP2986697 A4	20161005	EP20140784618	20140414
EP2986697 B1	20181121	EP20140784618	20140414
JP2015535863 T2	20151217	JP20150531955T	20130904
JP2018009186 A2	20180118	JP20170182117	20170922
JP6466843 B2	20190206	JP20150531955T	20130904
US2014069466 AA	20140313	US20130965339	20130813
US2014073549 AA	20140313	US20120614020	20120913
US2014073550 AA	20140313	US20120614150	20120913
US2014228275 AA	20140814	US20140257527	20140421
US2014235521 AA	20140821	US20140260901	20140424
US2014238445 AA	20140828	US20140268598	20140502
US2014308162 AA	20141016	US20130863001	20130415
US2014378366 AA	20141225	US20140479489	20140908
US2017233684 AA	20170817	US20170581156	20170428
US2017321165 AA	20171109	US20170660469	20170726
US2018251708 AA	20180906	US20180974130	20180508
US8748365 BB	20140610	US20120614150	20120913
US8871699 BB	20141028	US20120614020	20120913
US9023784 BB	20150505	US20130965339	20130813
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US9752105 BB	20170905	US20140268598	20140502
US9994799 BB	20180612	US20140260901	20140424
WO14042931 A1	20140320	WO2013US58016	20130904
WO14042932 A1	20140320	WO2013US58022	20130904
WO14172280 A1	20141023	WO2014US34011	20140414

Priority:

US20120614020	20120913	US20120614150	20120913	US20130863001	20130415
US20130965339	20130813	AU20130315902	20130904	JP20150531955T	20130904
WO2013US58022	20130904	WO2014US34011	20140414	US20140257527	20140421
US20140260901	20140424	US20140268598	20140502	US20140479489	20140908
US20170581156	20170428	AU20170203073	20170509	US20170660469	20170726
JP20170182117	20170922	US20180974130	20180508		

Probable Assignee: ECOLAB USA INC**Assignee(s):** (std): ECOLAB USA INC ; ECOLAB USE INC ; OLSON ERIK C ; SILVERNAIL CARTER M ; SILVERNAIL CARTER MARTIN**Inventor(s):** (std): BREWSTER ALLISON ; BRITTAIN KENT ; CARTER MARTIN SILVERNAIL ; DOTZAUER DAVID ; ERIK C OLSON ; JOHNSON RICHARD D ; LANGE STEVEN J ; LAWRENCE MICHEL M ; LI JUNZHONG ; MANSEGRGH JOHN ; OLSON ERIK C ; SILVERNAIL CARTER M ; SILVERNAIL CARTER MARTIN ; STAUB RICHARD ; STOKES JENNIFER ; SUN XIN**Agent(s):** SPRUSON AND FERGUSON; BORDEN LADNER GERVAIS LLP; GODEMEYER BLUM LENZE PATENTANWAELTE PARTNERSCHAFT MBB WERKPATENT; GODEMEYER BLUM LENZE PATENTANWAELTE PARTNERSCHAFT MBB WERKPATENT; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; MCKEE VOORHEES AND SEASE PLC; MCKEE VOORHEES AND SEASE; SORENSSEN ANDREW D**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**83) Family number: 68082287 (WO18002787A1)**

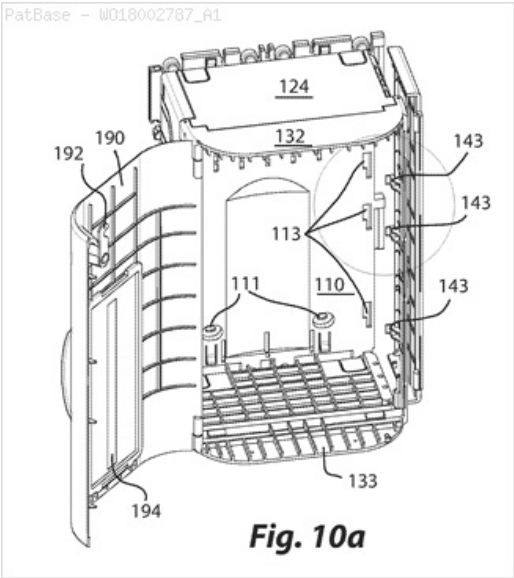
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Title: FOLDABLE SHELF FOR STORING

Abstract: Foldable shelf (100) for storing objects, in particular liquid containers, comprising a bracket (110) attachable to a wall and a foldable box (120) including a supporting frame comprising two ledges (132, 133) connected to each other through two connecting bars (134, 135), wherein the foldable box (120) further comprises a pair of first walls (122, 123) each one hinged to a respective connecting bar (134, 135) and a pair of second walls (124, 125) each one hinged to a respective ledge (132, 133), where the foldable box (120) is configured to assume a fully folded configuration and an operative configuration, wherein the first and second walls (122, 123, 124, 125) are at a maximum distance from the supporting frame at the respective second limit angular positions, wherein the first and second walls (122, 123, 124, 125) are respectively provided with first and second mechanical stabilising elements (126, 127, 128A, 128B, 129A, 129B) configured to mutually interact with each other to cause the foldable box (120) to stably maintain its operative configuration, a first pair of walls selected out of the pair of first walls (122, 123) and the pair of second walls (124, 125) being provided with projecting elements (142, 143) configured to slide, when the foldable box (120) assumes its operative configuration, in corresponding slots (112, 113) of the bracket (110) along a coupling linear direction (S) until they reach a lock position wherein the foldable box (120) is stably attached to the bracket (110) and the foldable shelf (100) assumes an operative configuration, wherein the bracket (110) is provided with elastic locking elements (114, 115) configured to interact with the other pair of walls selected out of the pair of first walls (122, 123) and the pair of second walls (124, 125) to cause the foldable shelf (100) to stably assume its operative configuration.

Classifications:

International (IPC 8-9): A47B43/00 A47B95/00 (Advanced/Invention)
International (IPC 1-7): A47B43/00 A47B95/00
CPC: A47B43/00 A47B95/008 A47K5/12



Family:

Publication number	Publication date	Application number	Application date
BR112018076284 A2	20190326	BR20181176284	20170623
CN109310205 A	20190205	CN201780036167	20170623
ITUA20164692 A1	20171227	IT2016UA04692	20160627
WO18002787 A1	20180104	WO2017IB53754	20170623

Priority:

IT2016UA04692 20160627 WO2017IB53754 20170623

Probable Assignee: SEKO SPA

Assignee(s): (std): SEKO SPA

Assignee(s): SEKO S P A

Inventor(s): (std): ESPOSITO LUIGINO ; FIORENTINO FRANCESCO ; PANTALEONI ADRIO

Agent(s): SCILLETTA ANDREA ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

84) Family number: 42078288 (US2011017778A)

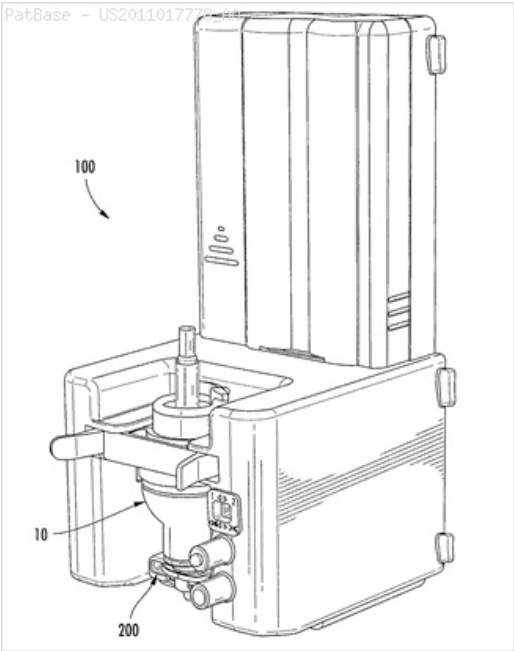
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Title: AUTOMATIC DISPENSER

Abstract: An automatic dispenser assembly is disclosed. The dispenser assembly is adapted to use a replaceable fluid container having a foam pump. The dispenser assembly includes an adapter for securing and positioning a foam pump in the dispenser assembly. The dispenser assembly also includes an actuating mechanism to automatically actuate the foam pump and a control circuit to control the operation of the actuating mechanism. When a sensor assembly detects a hand or other object in the proximity of the dispenser assembly in a position to receive a dose of foam, the actuating mechanism and the control circuit cooperate to drive the foam pump so as to create foam and to return the foam pump to a closed position that prevents leakage.

Classifications:

International (IPC 8-9): A47K5/12 A47K5/16 B05B11/00 B05B7/00 B65D88/54 B67D7/76 (Advanced/Invention); A47K5/00 B05B11/00 B05B7/00 (Core/Invention)
CPC: A47K5/1217 B05B7/0025 B05B11/0059 B05B11/3001 B05B11/3087
European: A47K5/12E B05B11/30L L05B11/00B6 L05B11/30C L05B7/00C1
US: 222/190 222/325 222/333



Family:

Publication number	Publication date	Application number	Application date
EP2125242 A1	20091202	EP20080709736	20080129
TW200908922 A	20090301	TW20080103238	20080129
US2011017778 AA	20110127	US20080021937	20080129
WO08093213 A1	20080807	WO2008IB00198	20080129

Priority:

US20070898676P 20070130 US20080021937 20080129 WO2008IB00198 20080129

Probable Assignee: TECHNICAL CONCEPTS LLC

Assignee(s): (std): HSIEH ROCKY ; KADIKS FEDOR ; TECHNICAL CONCEPTS L L C ; TECHNICAL CONCEPTS LLC

Inventor(s): (std): HSIEH ROCKY ; KADIKS FEDOR

Agent(s): SCHMID NILS T F; MOORE AND VAN ALLEN PLLC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

85) Family number: 65574289 (US2017121653A)

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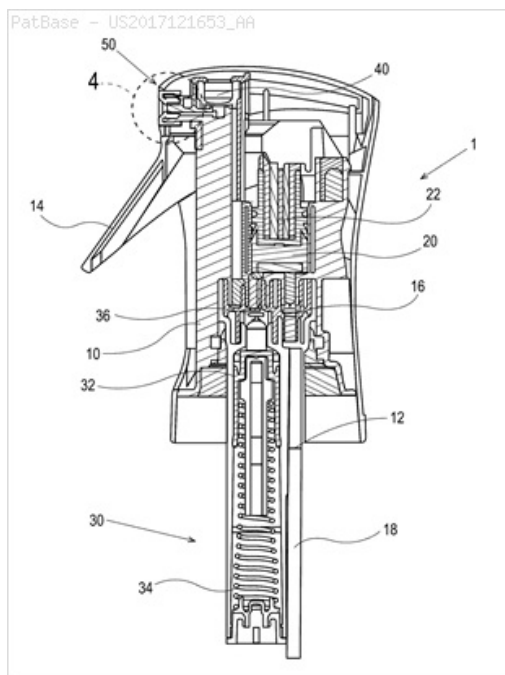
Title: DIRECT-FOAM CLEANING PRODUCTS

Abstract: A direct-foam cleaning product comprising a foam having a compression force of about 2.4 gfssmm to about 4.3 gfssmm. Such direct-foam cleaning product provides good foaming properties and surface coverage when the composition is sprayed directly onto soiled dishware. This leads to efficient cleaning of soiled dishes via a direct-foam and rinse action, which avoids traditional methods of soaking soiled dishes in detergent baths and/or scrubbing soiled dishware with a sponge or cleaning implement.

Classifications:

International (IPC 8-9): A61K8/02 B05B11/00 B05B12/00 C11D1/29 C11D1/66 C11D1/83 C11D1/90 C11D1/94 C11D11/00 C11D17/00 C11D17/04 C11D3/00 C11D3/20 C11D3/43 (Advanced/Invention); B05B1/34 C11D1/14 C11D1/29 C11D1/72 C11D1/75 (Advanced/Non-invention)

CPC: C11D11/0023 C11D3/43 C11D11/0058 C11D3/2068 C11D1/66 C11D17/0043 C11D1/29 B05B1/3436 B05B11/304 C11D1/146 C11D1/72 C11D1/75 C11D1/83 C11D1/94 C11D3/0094 C11D17/041

**Family:**

Publication number	Publication date	Application number	Application date
AR106528 AA	20180124	AR2016P103312	20161028
US2017121653 AA	20170504	US20160334512	20161026
US10233411 BB	20190319	US20160334512	20161026
WO17070917 A1	20170504	WO2015CN093322	20151030

Priority:

WO2015CN093322 20151030

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BETTIOL JEAN LUC PHIIPPE ; BOERS WESLEY YVONNE PIETER ; GONG SUXUAN ; HOEFTE PAULUS ANTONIUS AUGUSTINUS ; LAHUERTA SALAS OLGA ; WU GANG ; VANCAMPENHOUT PETER ; HOURCADE EMILIE ; LI XU ; SAHIN TOPKARA HILAL ; PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): BETTIOL JEAN LUC PHIIPPE ; BETTIOL JEAN LUC PHILIPPE ; BOERS WESLEY YVONNE PIETER ; GONG SUXUAN ; HOEFTE PAULUS ANTONIUS AUGUSTINUS ; HOURCADE EMILIE ; LAHUERTA SALAS OLGA ; LI XU ; SAHIN TOPKARA HILAL ; VANCAMPENHOUT PETER ; WU GANG ; XU LI ; WESLEY YVONNE PIETER BOERS ; SUXUAN GONG ; PETER VANCAMPENHOUT ; PAULUS ANTONIUS AUGUSTINUS LUC PHILIPPE HOEFTE ; OLGA LAHUERTA SALAS ; JEAN BETTIOL ; HILAL SAHIN TOPKARA ; GANG WU ; EMILIE HOURCADE

Agent(s): KENDALL DARA M; SHANGHAI PATENT AND TRADEMARK LAW OFFICE LLC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN

86) Family number: 65574290 (US2017121654A)

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Title: METHODS OF CLEANING DISHWARE COMPRISING A DIRECT-FOAM CLEANING PRODUCT

Abstract: A method of cleaning dishware with a direct-foam cleaning product is provided. The product comprises a foam having a compression force of about 2.4 gfssmm to about 4.3 gfssmm. Such direct-foam cleaning product provides good foaming properties and surface coverage when the composition is sprayed directly onto soiled dishware. This leads to efficient cleaning of soiled dishes via a direct-foam and rinse action, which avoids traditional methods of soaking soiled dishes in detergent baths and/or scrubbing soiled dishware with a sponge or cleaning implement.

Classifications:

International (IPC 8-9): A47L15/00 B08B11/00 B08B17/00 B08B3/02 B08B3/10 C11D1/12 C11D1/29 C11D1/72 C11D1/75 C11D1/94 C11D11/00 C11D17/00 C11D17/04 C11D3/37 C11D3/43 C11D7/50 (Advanced/Invention)

CPC: C11D11/0023 C11D3/43 C11D3/3707 C11D1/29 C11D17/0043 C11D1/72 C11D1/75 B08B3/02 B08B3/10 A47L15/0002 C11D11/0058

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Fig. 1A



Fig. 1B

Family:

Publication number	Publication date	Application number	Application date
AR106529 AA	20180124	AR2016P103313	20161028
EP3368644 A1	20180905	EP20150906981	20151030
JP2018532502 T2	20181108	JP20180521258T	20151030
US2017121654 AA	20170504	US20160334537	20161026
WO17070918 A1	20170504	WO2015CN093324	20151030

Priority:

WO2015CN093324 20151030

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BETTIOL JEAN LUC PHIIPPE ; BOERS WESLEY YVONNE PIETER ; GONG SUXUAN ; HOEFTE PAULUS ANTONIUS AUGUSTINUS ; LAHUERTA SALAS OLGA ; WU GANG ; VANCAMPENHOUT PETER ; HOURCADE EMILIE ; LI XU ; SAHIN TOPKARA HILAL ; PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): BETTIOL JEAN LUC PHIIPPE ; BETTIOL JEAN LUC PHILIPPE ; BOERS WESLEY YVONNE PIETER ; GONG SUXUAN ; HOEFTE PAULUS ANTONIUS AUGUSTINUS ; HOURCADE EMILIE ; LAHUERTA SALAS OLGA ; LI XU ; SAHIN TOPKARA HILAL ; VANCAMPENHOUT PETER ; WU GANG ; XU LI ; WESLEY YVONNE PIETER BOERS ; SUXUAN GONG ; PETER VANCAMPENHOUT ; PAULUS ANTONIUS AUGUSTINUS LUC PHILIPPE HOEFTE ; OLGA LAHUERTA SALAS ; JEAN BETTIOL ; HILAL SAHIN TOPKARA ; GANG WU ; EMILIE HOURCADE

Agent(s): KELLENBERGER JAKOB; TANI AND ABE PC; SHANGHAI PATENT AND TRADEMARK LAW OFFICE LLC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

87) Family number: 53179293 (BRPI1004190A)

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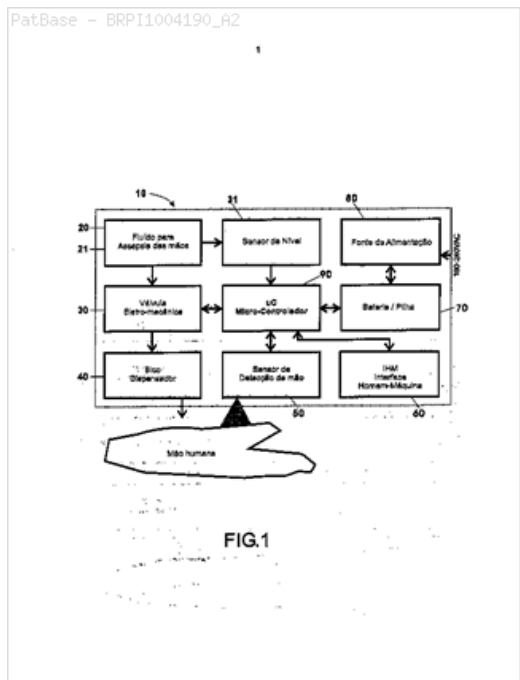
Title: dispensador eletrnico de fluído para assepsia das mcos Eletrnico fluid dispenser for disinfection of MCOs (Machine translation)

Abstract: Source: BRPI1004190A [PT] DISPENSADOR ELETRNICO DE FLUIDO PARA ASSEPSIA DAS MCOS De acordo com

a presente invencao, que se trata de um dispensador automatico de fluido para assepsia das maos sem necessidade de contato fisico, que serve para liberar uma quantidade pre-determinada de fluido para assepsia das maos atraves de uma valvula eletro-mecanica acionada por circuito micro-controlado e sensor de presenca para detectar a presenca da mao do usuario no local adequado para receber o fluido. Composto por um alojamento de fluido na parte superior, sendo o fluido armazenado em embalagem flexivel hermeticamente fechada e sem contato com o ar ambiente para se evitar a volatilidade do fluido e consequente alteracao de suas propriedades fisico-quimicas na forma de refil. O escoamento do fluido se da de forma natural, atraves da forca da gravidade exercida sobre a embalagem flexivel, sem necessidade de bombeamento ou respiro. A alimentacao pode ser feita atraves de pilhas, baterias ou fonte de alimentacao para corrente alternada, sendo de baixo consumo de energia. Pode possuir indicadores para alertar o usuario sobre a necessidade de troca do refil de fluido e nivel da bateria ou pilhas para a sua substituicao ou recarga.

Machine translation: ELETRANICO FLUID DISPENSER FOR asepsis MCOS According to the present invention, that it is an automatic fluid dispenser for disinfection of hands without physical contact which serves to release a predetermined quantity of fluid to asepsis of hands through a valve electro-mechanically driven micro-controlled circuit and presence sensor for detecting the presence of the hand of the User in place to receive the fluid. Comprising a housing fluid at the top, the fluid being stored in hermetically sealed flexible packaging and without contact with ambient air to avoid the volatility of the fluid and consequent alteration of their physicochemical properties as refill. The fluid flow is the natural way, through the force of gravity exerted on the flexible packaging, without pumping or breathing. The feeding can be done from batteries, or power supply to alternating current, and low power consumption. You can have indicators to alert the User about the need to change the fluid and refill level of the battery or batteries for their replacement or recharge.

Classifications:
International (IPC 8-9): A47K5/12 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
BRPI1004190 A2	20130226	BR2010PI04190	20101104

Priority:

BR2010PI04190 20101104

Probable Assignee: VERONEZI AGNALDO
Assignee(s): (std): VERONEZI AGNALDO
Assignee(s): AGNALDO VERONEZI
Inventor(s): (std): VERONEZI AGNALDO
Inventor(s): AGNALDO VERONEZI

88) Family number: 55882295 (US2014054320A)

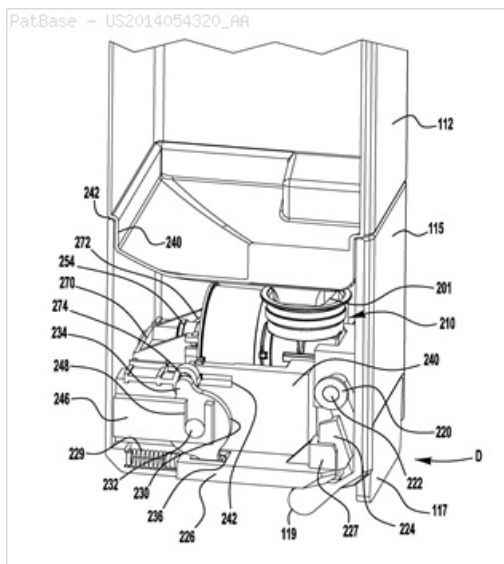
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Title: OFF-AXIS INVERTED DISPENSERS AND REFILL UNITS

Abstract: Exemplary embodiments of inverted dispenser systems and refill units are disclosed herein. An exemplary dispenser includes a dispenser housing and an actuating lever. A rack is engaged by the actuating lever. An actuator carriage is included that is movable back and forth in a linear motion. The rack is linked to the actuating carriage and the rack is movable back and forth in a linear motion. Movement of the rack toward the back of the dispenser causes the actuator carriage to move toward the front of the dispenser.

Classifications:

International (IPC 8-9): A47K5/12 A47K5/14 A47K5/16 B05B1/00 B05B1/02 B05B11/00 B05B7/00 B65D1/02 B65D21/06 B65D47/34 B65D5/22 B65D83/00 B65D83/38 B65D83/76 B65D88/54 B67D7/18 B67D7/36 B67D7/58 B67D7/64 B67D7/70 B67D7/76 F04B17/03 F04B53/14 G06F1/26 H02J1/00 H02J7/00 H02J7/02 H02J7/34 H02M3/02 (Advanced/Invention); A47K5/12 A47K5/14 (Advanced/Non-invention)
CPC: B65D1/0292 F04B17/03 H02M3/02 B05B11/3042 F04B53/14 A47K5/16 H02J7/0063 H02J7/345 H02J2007/0067 B65D83/38 A47K5/1211 B05B11/3001 B05B11/0059 B05B11/30 B65D2501/0018 B65D2501/0036 B65D2501/0081 A47K5/1217 H02J7/0054 B05B11/3087 Y10T29/49236 B05B7/0025 B05B11/3015 A47K5/14 A47K5/12 B05B11/0039 B05B11/0044 B05B11/00414 B05B11/00442
US: 1/1 220/6 222/153.09 222/173 222/181.1 222/190 222/325



Family:

Publication number	Publication date	Application number	Application date
AU2013305789 AA	20140227	AU20130305789	20130822
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Priority:

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US20150718668	20150521	US20150797728	20150713	US20150918874	20151021

Probable Assignee: GOJO IND INC

Assignee(s): (std): CIAVARELLA NICK E ; CURTIS CHIP W ; GMEREK III MICHAEL J ; GOJO IND INC ; HARRIS DONALD R ; MCNULTY JOHN J ; MOTYKA JAMES E ; QUINLAN ROBERT L ; KANFER JOSEPH S ; LANG ROBERT J ; ROSENKRANZ MARK E ; SPIEGELBERG TODD A ; TEDEROUS CORY J ; TEDEROUS CORY ; RAY EUGENE W ; TABATA MASATO ; WEGELIN JACKSON W

Assignee(s): PNC BANK NATIONAL ASSOCIATION AGENT AS

Inventor(s): (std): CHIP W CURTIS ; CIAVARELLA NICK E ; CIAVARELLA NICK E CIAVARELLA E ; CORY J TEDEROUS ; CURTIS CHIP W ; GMEREK III MICHAEL J ; GMEREK MICHAEL J ; GMEREK MICHAEL J III ; HARRIS DONALD R ; JACKSON W WEGELIN ; JAMES E MOTYKA ; JOHN J MCNULTY ; KANFER JOSEPH S ; LANG ROBERT J ; MARK E ROSENKRANZ ; MCNULTY JOHN J ; MCNULTY JOHN JAMES ; MOTYKA JAMES E ; NICK E CIAVARELLA ; QUINLAN ROBERT L ; RAY EUGENE W ; ROBERT L QUINLAN ; ROSENKRANZ MARK E ; SPIEGELBERG TODD A ; TABATA MASATO ; TEDEROUS CORY ; TEDEROUS CORY J ; TODD A SPIEGELBERG ; WEGELIN JACKSON W

Agent(s): COLLISON AND CO; SIM AND MCBURNEY; MARKS AND CLERK; TETZNER MICHAEL; NAGAI YOSHIHISA; CALFEE HALTER AND GRISWOLD LLP; BONNER CHET J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

89) Family number: 58446298 (US2015033671A)

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Title: METHOD OF FORMING A FLEXIBLE CONTAINER

Abstract: Methods of forming flexible containers, the methods comprising joining together a first flexible material and a second flexible material, to form a joined material, using the joined material, at least partially forming a structural support volume and an expansion port in communication with the structural support volume, and by joining a third flexible material to the joined material, at least partially forming a product volume and a fill port in communication with the product volume.

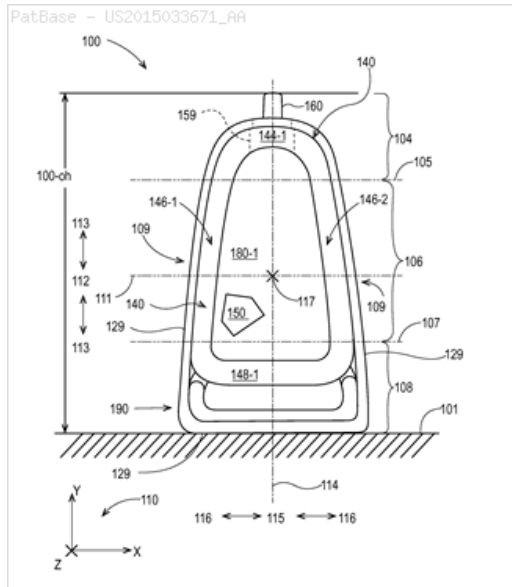
Classifications:

International (IPC 8-9): B65B1/18 B65B3/04 B65B3/17 B65B31/04 B65B43/06 B65B43/08 B65B43/26 B65B43/30 B65B61/18 B65B9/02 B65D30/16 B65D33/02 B65D75/00 B65D75/28 (Advanced/Invention)

CPC: B65B43/08 B65B3/045 B65B43/30 B65B61/186 B65D75/008

B65D75/28 B65B1/18 B65B3/17 B65B43/06 B65B43/262

US: 493/210 53/410



Family:

Publication number	Publication date	Application number	Application date
BR112016002169 A2	20170801	BR20161102169	20140731
CA2918405 AA	20160114	CA20142918405	20140731
CN105473447 A	20160406	CN201480042686	20140731
CN105473447 B	20181109	CN201480042686	20140731
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EP3027513 A1	20160608	EP20140753178	20140731
EP3027513 B1	20170927	EP20140753178	20140731
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IN201617001124 A	20160722	IN201617001124	20160112
JP2016525050 T2	20160822	JP20160530103T	20140731
MX2016001441 A1	20160803	MX20160001441	20140731
US2015033671 AA	20150205	US20140448491	20140731
WO15017621 A1	20150205	WO2014US49057	20140731

Priority:

US20130861118P 20130801 EP20140753178 20140731 US20140448491 20140731
WO2014US49057 20140731

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): RAPACH ANDREW PAUL ; STANLEY SCOTT KENDYL ; PROCTER AND GAMBLE CO CINCINNATI ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; ISHIHARA TADAYOSHI ; LESTER JOSEPH CRAIG ; PROCTER AND GAMBLE CO

Inventor(s): (std): ANDREW PAUL LESTER ; ANDREW PAUL RAPACH ; BENJAMIN JACOB CLARE ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; ISHIHARA TADAYOSHI ; JOSEPH CRAIG LESTER ; LESTER ANDREW PAUL ; LESTER JOSEPH CRAIG ; MARC RICHARD BOURGEOIS ; RAPACH ANDREW PAUL ; SCOTT KENDYL STANLEY ; STANLEY SCOTT KENDYL ; TADAYOSHI ISHIHARA

Inventor(s): STANLEY SCOTT KENDYL CINCINNATI ; RAPACH ANDREW PAUL CINCINNATI ; LESTER JOSEPH CRAIG CINCINNATI ; ISHIHARA TADAYOSHI CINCINNATI ; CLARE BENJAMIN JACOB CINCINNATI ; BOURGEOIS MARC RICHARD CINCINNATI

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; ENGISCH GAUTIER; MAULITTA PRAMULASARI; TANI AND ABE PC; GUFFEY TIMOTHY B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

90) Family number: 14997303 (US5702115A)

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Title: Patient care utility cart

Abstract: A utility cart for facilitating patient care and supporting patient care material is described. The cart includes a frame, plural wheels on the frame, and plural walls mounted on the frame forming two spaced vertical support members defining at least one storage area which may be accessed via a hingedly mounted wall. At least one shelf is mounted between the support members and is bi-directionally extendable on either side of the cart. A bi-directionally extendable drawer, is similarly mounted adjacent the shelves. A sink is provided on the frame, and a console on the cart adjacent the sink includes plural faucets operatively connected to storage tanks for supplying water, soap, and/or moisturizer. Photo-sensitive switches on the console adjacent the faucets enable no-contact dispensing of various liquids. The console also includes plural information-conveying gauges. Communication devices are provided on the cart, such as an electronic clip board and two-way communication radios for communicating with a remote location.

Classifications:

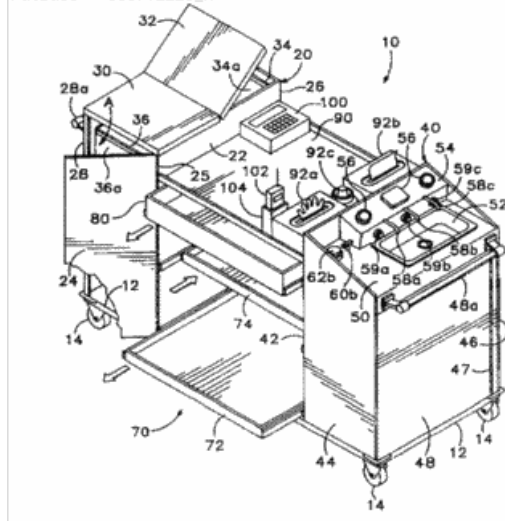
International (IPC 8-9): A61G12/00 (Advanced/Invention)

International (IPC 1-7): A47K1/02 B62B3/00

CPC: A47B2031/002 A61G12/001

European: A61G12/00B K47B31/00C

US: 280/47.35 312/209 312/249.11 312/249.12 4/626 4/630

**Family:**

Publication number	Publication date	Application number	Application date
US5702115 A	19971230	US19970786487	19970121

Priority:

US19950371302 19950110 US19970786487 19970121

Probable Assignee:

POOL L FRANK

Assignee(s):

POOL L FRANK

Inventor(s): (std):

POOL L FRANK

91) Family number: 34969304 (US2007181731A)

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Title: SUSPENDED CABLE REEL

Abstract: A foldable reel for uncoiling electrical cable is described which includes a suspension connector, pivoting bottom frame, vertical brace maintaining the separation of the suspension connector and the bottom frame, and flexible cable roll supports extending between the distal portions of the bottom frame and the suspension connector.

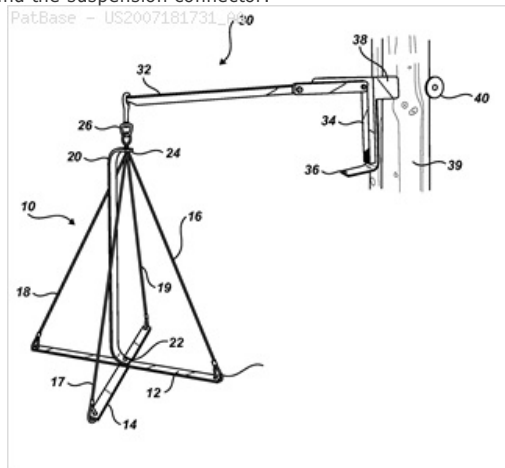
Classifications:

International (IPC 8-9): A61K8/36 B65H75/22 (Advanced/Invention); A61K8/30 B65H75/18 (Core/Invention)

CPC: B65H49/22 B65H49/321 B65H49/327 A61Q9/02 A61K8/361 A61K2800/87 B26B21/222 B26B21/4081 B26B21/52

European: A61K8/36C A61Q9/02 B65H49/22 B65H49/32B B65H49/32F4 K61K201/142 K61K800/87

US: 242/407.1 424/73 424/73P

**Family:**

Publication number	Publication date	Application number	Application date
US2007181731 AA	20070809	US20060530749	20060911
US2007184010 AA	20070809	US20060346887	20060203
US2007184011 AA	20070809	US20060530775	20060911

Priority:

US20060346887 20060203 US20060530749 20060911 US20060530775 20060911

Probable Assignee:

HERLANDS MARC S

Assignee(s): (std):

HERLANDS MARC S ; TAYLOR PERRY

Inventor(s): (std):

HERLANDS MARC S ; TAYLOR PERRY

Inventor(s):

HERLANDS MARC

Agent(s):

WESLEY B AMES; WESLEY B AMES AMES IP LAW

92) Family number: 15275310 (US5996907A)

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Title: Portable wash and rinse system with dilution

Abstract: The system of the invention comprises a container with a spout that can be filled with water from a tub. The container having a housing positioned above the container for electrical and pumping components. The housing comprises a dry side and a wet side and a source of liquid cleaner concentrate. The wet side is proximate the container and diluent water. The system also comprises a spray wand that can be used to spray both cleaner and rinse water on a cleanable surface. The housing comprises a wet portion containing a pump drive and tubing providing liquid communication between the container, source of aqueous concentrate and diluent, venturi and liquid communication to a spray head. The dry side containing wiring switches, rechargeable batteries and other electrical systems. The system is easily portable, easily filled with service water which can be easily poured from the system after use, is rechargeable and can be used in cleaning hospitality, institutional and commercial showers, tubs, sinks, counters, mirrors, walls, floors and other cleanable surfaces.

Classifications:

International (ipc 8-9): A47L25/00 B08B3/02 B08B3/04 B67D5/33 B67D5/56 B67D7/34 B67D7/74 C11D1/66

C11D17/04 (Advanced/Invention);

A47L25/00 (Advanced/Non-invention);

A47L25/00 B08B3/02 B08B3/04 B67D7/32 B67D7/74 C11D1/66

C11D17/04 (Core/Invention)

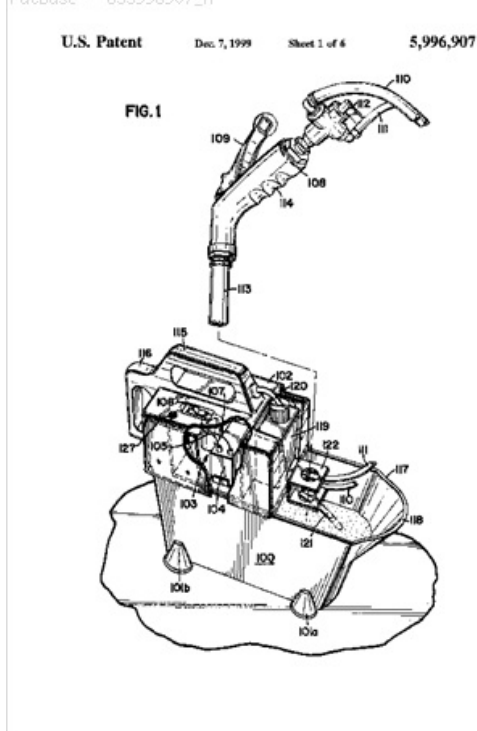
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European: B05B7/24A20 B05B7/24A4R B08B3/02H B67D7/34C B67D7/74 C11D1/66 C11D17/04B C11D17/04B4

US: 239/305 239/318 239/443 239/70 239/72 239/74

PatBase - US5996907_R



Family:

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Priority:

US19980033229 19980302 CA19992263617 19990301 CA19992263617 19990301
US19990347694 19990702 WO2000US04529 20000223 US20000576722 20000523

Probable Assignee: ECOLAB INC

Assignee(s): (std): ECOLAB INC

Assignee(s): ECOLAB INC ST PAUL ; PEDERSEN DANIEL E ; TOETSCHINGER MARK ; TOETSCHINGER MARK J ; DAWSON MARY M

Inventor(s): (std): PEDERSEN DANIEL E ; TOETSCHINGER MARK J ; TOETSCHINGER MARK ; MARY M DAWSON ; MARK TOETSCHINGER ; DAWSON MARY M

Inventor(s): MARK J TOETSCHINGER ; DANIEL E PEDERSEN

Agent(s): GRIFFITH HACK ; GOUDREAU GAGE DUBUC ; LAVERY DE BILLY LLP ; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC

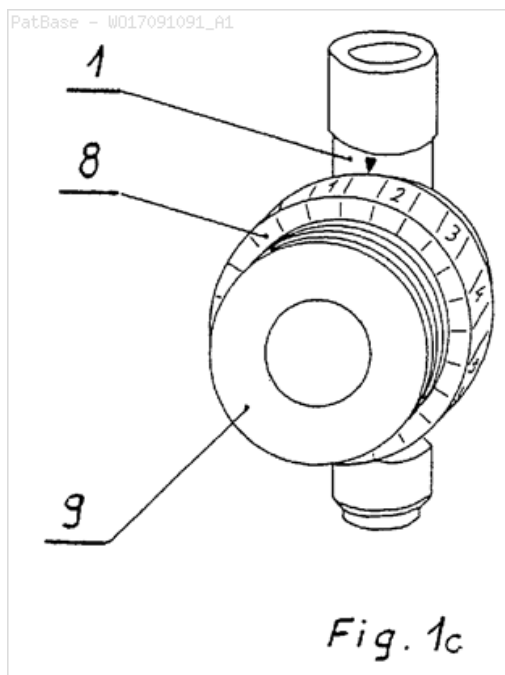
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93) Family number: 65837313 (WO17091091A1)

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Title: A DISPENSING DEVICE FOR DISPENSING LIQUIDS FROM FLEXIBLE PACKAGING FOR LIQUIDS

Abstract: A dispensing device (D) according to the invention for dispensing liquids from flexible packaging, in particular for dispensing a defined amount of a liquid from a flexible packaging comprising a device body (1) having generally elongated shape, wherein in said body (1) at its one end, an inlet fitting (2) is mounted and at its another end an outlet fitting (3) is mounted, wherein the body (1) defines an inner space (1a) and is further provided on its side surface with a connection opening (11), wherein to said connection opening (11), and preferably to a flange (1c) outwardly projecting from a side surface of the body (1) and surrounding said connecting opening (11) a resilient bellows (9) is attached in a sealed manner, consisting of a certain number of folds (F), preferably in the form of helical coils (Z), and wherein said resilient bellows (9) defines inside an inner space (9a) being in fluid communication with said connection opening (11) and said inner space (1a). Said folds (F) or helical coils (Z) are adapted to flex under pressure exerted on a bellows bottom (9b) in axial direction, towards the body (1). The dispensing device (D) is further provided with an assembly for stepless adjustment of a volume of dispensed liquid comprising a control element (8) cooperating with said resilient bellows (9) and arranged on outer side surface of said bellows (9) and/or said flange (1c) around their outer periphery, at least on a certain section of a length of said resilient bellows (9) and/or said flange (1c).

Classifications:**International (IPC 8-9):** B05B11/00 G01F11/08 (Advanced/Invention)**CPC:** G01F11/08 B05B11/3008 B05B11/3035 B05B11/3045**Family:**

Publication number	Publication date	Application number	Application date
EP3380247 A1	20181003	EP20150813144	20151125
WO17091091 A1	20170601	WO2015PL50062	20151125

Priority:

WO2015PL50062 20151125

Probable Assignee: IWANEJKO ELECTRONICS ZDZISLAW IWANEJKO**Assignee(s):** (std): IWANEJKO ELECTRONICS ZDZISLAW IWANEJKO**Inventor(s):** (std): IWANEJKO ZDZISLAW**Agent(s):** BALINSKA EWA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

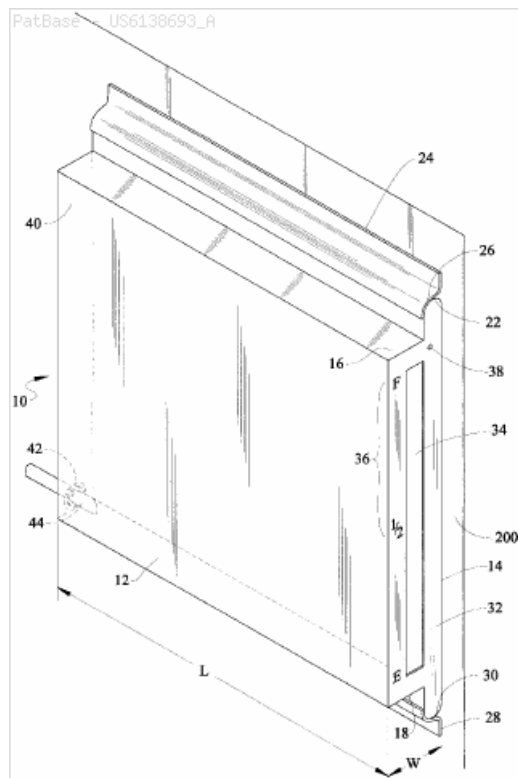
94) Family number: 12634316 (US6138693A)

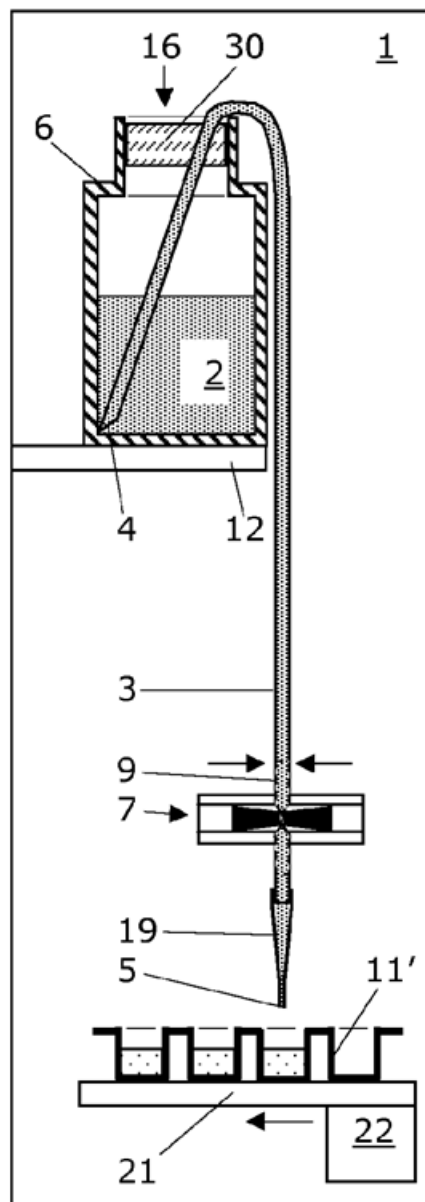
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Title: Automatic detergent dispenser

Abstract: An automatic detergent dispenser for dishwashers allowing transfer of a liquid detergent from a disposable detergent container placed in holders along the sidewall of a dish washing chamber. The storage container includes a membrane that is pierced upon installation with a coupling tube to allow the flow of liquid detergent without the transfer of fluid between containers. Liquid detergent flows by gravity to a dispenser unit where it is stored until the wash cycle and released from the dispenser by use of an electric actuator. The detergent containers include a transparent portion to provide a visual indication of the amount of detergent contained therein.

Classifications:**International (IPC 8-9):** A47L15/44 (Advanced/Invention); A47L15/44 (Core/Invention)**International (IPC 1-7):** B08B3/02**CPC:** A47L15/4418**European:** A47L15/44B**US:** 134/100.1 134/57D 134/99.2 134/992 222/81



**Family:**

Publication number	Publication date	Application number	Application date
CH703127 A1	20111115	CH20100000738	20100512
CN102985180 A	20130320	CN201180034395	20110506
EP2569088 A1	20130320	EP20110720421	20110506
US2013092288 AA	20130418	US20110696900	20110506
WO11141357 A1	20111117	WO2011EP57260	20110506

Priority:

CH20100000738 20100512 US20100334332P 20100513 WO2011EP57260 20110506
 US20110696900 20110506

Probable Assignee: TECAN TRADING AG

Assignee(s): (std): SCHRIBER ARMIN ; TECAN TRADING AG

Inventor(s): (std): SCHRIBER ARMIN

Inventor(s): ARMIN SCHRIBER

Agent(s): OK pat AG; MUELLER THEODOR

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

96) Family number: 64283320 (WO16193367A1)

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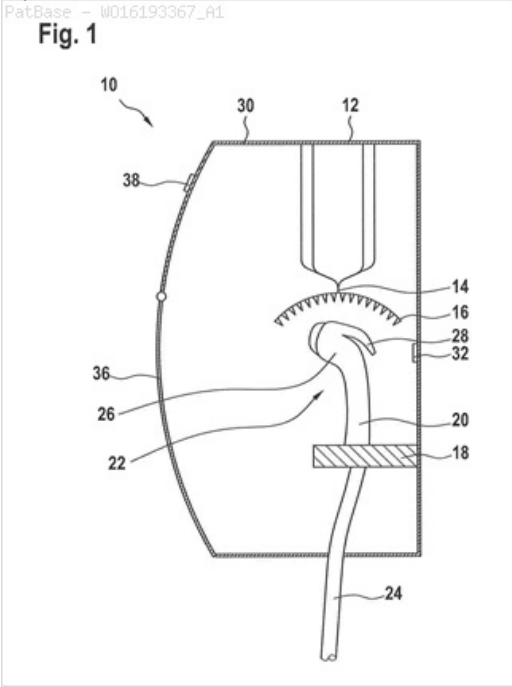
Title: CLEANING DEVICE, PARTICULARLY A DISINFECTING DEVICE FOR A SHOWER HEAD

Abstract: The invention relates to a cleaning device comprising a contactlessly-actuatable metering dispenser (12; 112, 312) having an application head (14; 114; 314) for dispensing a cleaning fluid, a shower head holder (18; 118; 318; 418; 518),

and a receiving region (22; 122; 322; 522) for receiving at least one section of a shower head (20; 120; 320; 420; 520), said metering dispenser (12; 112; 312) being designed to supply a cleaning fluid into the receiving region (22; 122; 322; 522) for receiving at least one section of a shower head (20; 120; 320; 420; 520).

Classifications:

International (IPC 8-9): A61G9/02 A61L2/16 A61L2/18 A61L2/20 A61L2/22 A61L2/24 B08B3/02 E03C1/04 (Advanced/Invention)
CPC: A61L2/22 A61L2/24 B08B3/02 B05B7/0884 B05B12/122 B05B15/555 B05B15/557 B05B16/40 B65D83/388



Family:

Publication number	Publication date	Application number	Application date
DE102015108779 A1	20161208	DE201510108779	20150603
EP3103479 A1	20161214	EP20160001243	20160602
WO16193367 A1	20161208	WO2016EP62489	20160602

Priority:

DE201510108779 20150603

Probable Assignee: SCHNEIDER HARTMUT J

Assignee(s): (std): SCHNEIDER HARTMUT J

Inventor(s): (std): SCHNEIDER HARTMUT J

Agent(s): PATENTANWALTE DR KELLER SCHWERTFEGER; SCHWERTFEGER ASTRID ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

97) Family number: 64975322 (US2017049286A)

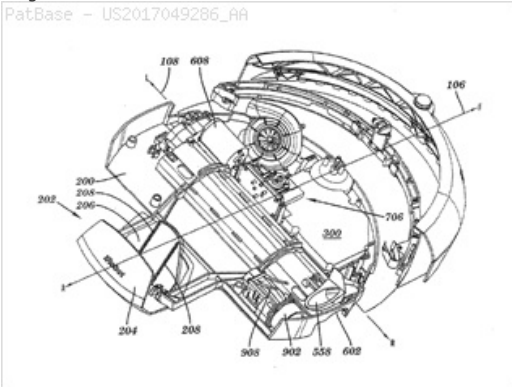
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Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/30 A47L11/40 G01C22/00 G01M17/00 G05D1/00 G06F19/00 G06F7/00 (Advanced/Invention)
CPC: A47L11/302 A47L11/4011 A47L11/4016 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4066 A47L11/4069 A47L11/4083 A47L11/4088 A47L2201/022 A47L2201/04 A47L5/14 A47L7/0028 A47L7/0038 A47L7/0042 A47L9/009 A47L9/28 A47L11/40 A47L2201/00 B60B33/001 B60B33/0021 B60B33/0028 B60B33/0039 B60B33/0049 B60B33/0057 B60B33/0068 B60B33/0073 B60B33/028 C11D1/62 C11D1/75 F04D29/4233 G05D1/0219 G05D1/0227 G05D1/0272 G05D2201/0203 Y10S901/01 Y10S901/40 A47L9/10 A47L9/2826 A47L9/2852 A47L9/2857 A47L9/2873 A47L9/2884 A47L11/4005 A47L11/4027 B60R19/483 G05D1/0225
US: 15/50.1



Family:

Publication number	Publication date	Application number	Application date
US2017049286 AA	20170223	US20160238181	20160816
US9706891 BB	20170718	US20160238181	20160816

Priority:

US20050654838P 20050218 US20050133796 20050521 US20050134212 20050521
US20050134213 20050521 US20050207575 20050819 US20050207620 20050819
US20050207574 20050819 US20060359961 20060221 US20110023444 20110208
US20140301454 20140611 US20160238181 20160816

Probable Assignee: IROBOT CORP**Assignee(s):** (std): IROBOT CORP**Inventor(s):** (std): DUSSAULT SMITH NANCY ; GILBERT JR DUANE L ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL E ; ZIEGLER ANDREW**Agent(s):** FISH AND RICHARDSON PC**98) Family number: 61194324** (CH709738B)

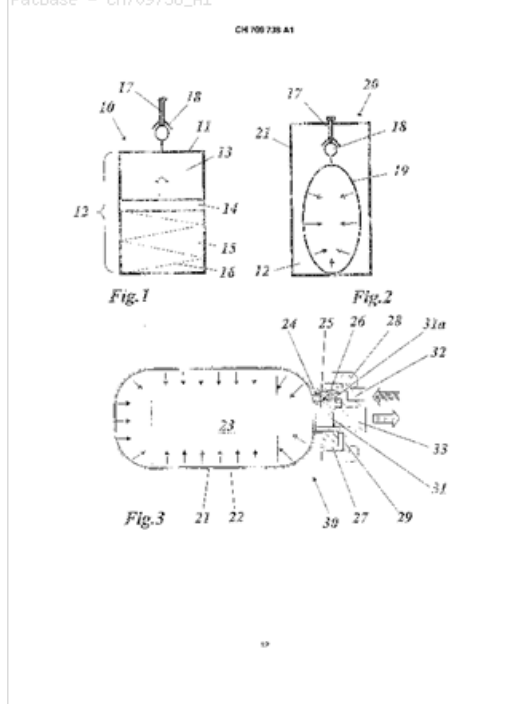
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Title: ENTKALKUNGSMITTEL-APPLIKATIONSVORRICHTUNG SOWIE GETRAENKEAUTOMAT FUER DEN EINSATZ EINER SOLCHEN ENTKALKUNGSMITTEL-APPLIKATIONSVORRICHTUNG.

Abstract: Source: CH709738B [DE] Eine Entkalkungsmittel-Applikationsvorrichtung (20) umfasst einen Behälter (19), welcher ein Entkalkungsmittel in fester oder flüssiger Form enthält, und welcher ueber mit dem Behälter (19) verbundene Anschlussmittel (17, 18) zur Durchfuehrung eines Entkalkungsprozesses an einen Getraenkeautomaten, insbesondere eine Kaffeemaschine, anschliessbar ist. Eine einfache und sichere Handhabung wird dadurch erreicht, dass der Behälter (19) fuer das Entkalkungsmittel ein veraenderliches Volumen aufweist.

Classifications:**International (IPC 8-9):** A47J31/60 (Advanced/Invention)**CPC:** A47J31/60

PatBase - CH709738_A1

**Family:**

Publication number	Publication date	Application number	Application date
CH709738 A1	20151215	CH20140000844	20140603
CH709738 B1	20171229	CH20140000844	20140603

Priority:

CH20140000844 20140603

Probable Assignee: SCHAEERER AG**Assignee(s):** (std): SCHAEERER AG**Inventor(s):** (std): ANDRE LUESSI ; EGLI PETER ; LUESSI ANDRE ; PETER EGLI**99) Family number: 62121327** (US9316216B)

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Title: PROPORTIONING PUMP, CONTROL SYSTEMS AND APPLICATOR APPARATUS

Abstract: An absolute proportioning pumping system includes an electric motor assembly powering a first pump at a first flow rate and powering a second pump at a second flow rate. A proportioned fluid output includes a first fluid pumped by the first pump and a second fluid pumped by the second pump. The pumping system provides a desired ratio of the first fluid to the second fluid at the proportioned fluid output, relatively independently of pressure and flow rate at the output. In accord with further embodiments, a pump and motor assembly is mounted to and generally surrounded by a liquid tank. The pump and motor assembly may include a pair of fixed ratio outputs driven from a common motor, or may include a single variable output pump either slaved to a master pump or controlled through a timed bypass valve to control output flow rate.

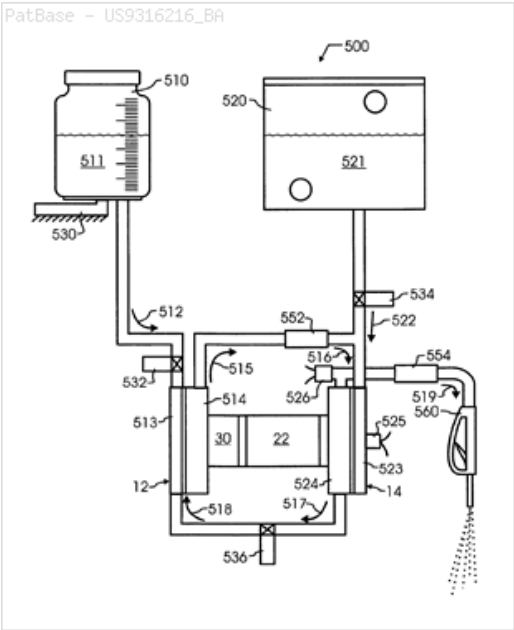
Classifications:**International (IPC 8-9):** F04B17/03 F04B23/06 F04B35/04 F04B49/20

F04B53/14 (Advanced/Invention);

B01F15/00 B01F15/02 B01F15/04 B05B12/14 F04B13/02

F04B17/03 (Advanced/Non-invention)

CPC: B01F15/0037 B01F15/0243 B01F15/042 B05B12/1418



Family:

Publication number	Publication date	Application number	Application date
US9316216 BA	20160419	US20130853047	20130328
US10167863 BA	20190101	US20160133082	20160419

Priority:

US20120617015P 20120328 US20130853047 20130328 US20160133082 20160419

Probable Assignee: PUMPTEC INC

Assignee(s): (std): BABCOCK STEPHEN E ; COOK JAMES E ; DORSEY STEVEN T ; ERIKSEN O HARALD ; PUMPTEC INC

Inventor(s): (std): BABCOCK STEPHEN E ; COOK JAMES E ; DORSEY STEVEN T ; ERIKSEN O HARALD

Agent(s): ALBERT W; WATKINS ALBERT W

100) Family number: 64694331 (US2017014006A) © PatBase

Title: FOAMING CARTRIDGES, PUMPS, REFILL UNITS, AND FOAM DISPENSERS USING THE SAME

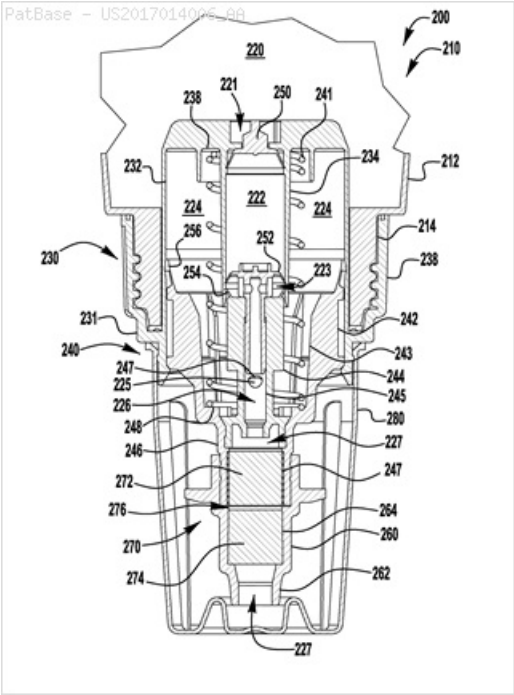
Abstract: An exemplary foam cartridge for a foam pump includes a housing having an inner diameter, a first foaming stage disposed within the housing, and a second foaming stage disposed within the housing. The first foaming stage is spaced apart from the second foaming stage. The first foaming stage has at least two different types of mix media, and the second foaming stage has at least two different types of mix media.

Classifications:

International (IPC 8-9): A47K10/16 A47K5/12 A47K5/14 B05B7/00 (Advanced/Invention)

CPC: A47K5/1211 A47K5/14 B05B7/0043 B05B11/3087

US: 222/190



Family:

Publication number	Publication date	Application number	Application date
CA2991979 AA	20180109	CA20162991979	20160715
JP2018526062 T2	20180913	JP20180500786T	20160715
US2017014006 AA	20170119	US20160211257	20160715

AU2006220416 AA	20061026	AU20060220416	20060920
AU2006220416 BB	20090205	AU20060220416	20060920
AU735655 B2	20010712	AU19980051132	19971202
AU771994 B2	20040408	AU20010048029	20010525
BRPI9713673 A	20001031	BR1997PI13673	19971202
CA2273240 AA	19990531	CA19972273240	19971202
CA2273240 C	20080219	CA19972273240	19971202
CA2607067 AA	19980611	CA19972607067	19971202
CL1997002631 A1	19981005	CL19970002631	19971201
CN101011576 A	20070808	CN200610099927	19971202
CN101011576 B	20140917	CN200610099927	19971202
CN101195028 A	20080611	CN200610099895	19971202
CN1200706 C	20050511	CN19971081581	19971202
CN1246791 A	20000308	CN19971081581	19971202
CN1679937 A	20051012	CN200510054770	19971202
DE69704877 D1	20010621	DE19976004877	19971202
DE69704877 T2	20011115	DE19976004877T	19971202
DE69722681 D1	20030710	DE19976022681	19971202
DE69722681 T2	20040513	DE19976022681T	19971202
DE69724016 D1	20030911	DE19976024016	19971202
DE69724016 T2	20040617	DE19976024016T	19971202
DE69739761 D1	20100325	DE19976039761	19971202
DK0941089 T3	20010910	DK19970945697T	19971202
EP0941089 A2	19990915	EP19970945697	19971202
EP0941089 B1	20010516	EP19970945697	19971202
EP1070502 A2	20010124	EP20000123557	19971202
EP1070502 A3	20011017	EP20000123557	19971202
EP1070502 B1	20030604	EP20000123557	19971202
EP1090637 A2	20010411	EP20000123537	19971202
EP1090637 A3	20010912	EP20000123537	19971202
EP1092433 A2	20010418	EP20000123534	19971202
EP1092433 A3	20010912	EP20000123534	19971202
EP1092433 B1	20030806	EP20000123534	19971202
EP1582210 A2	20051005	EP20050011601	19971202
EP1582210 A3	20051012	EP20050011601	19971202
EP1582210 B1	20100210	EP20050011601	19971202
ES2157601 T3	20010816	ES19970945697T	19971202
ES2207451 T3	20040601	ES20000123534T	19971202
GR3036364 T3	20011130	GR20010401220T	20010810
HK1022270 A1	20020510	HK20000101207	20000228
HK1033422 A1	20031219	HK20010104005	20010612
HK1037320 A1	20040709	HK20010107305	20011018
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HK1081126 A1	20060512	HK20060103677	20010612
HK1081126 A3	20060512	HK20060103677	20010612
JP2001503785 T2	20010321	JP19980524997T	19971202
JP2002226399 A2	20020814	JP20010401899	20011228
JP2009161555 A2	20090723	JP20090057154	20090310
JP3287852 B2	20020604	JP19980524997T	19971202
KR100809304 B1	20080304	KR19997004880	19971202
KR20000069265 A	20001125	KR19997004880	19971202
KR20050098031 A	20051010	KR20057018245	19971202
NO20063667 A	19990730	NO20060003667	20060815
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NO992641 A	19990730	NO19990002641	19990601
NO992641 A0	19990601	NO19990002641	19990601
NZ336094 A	20010831	NZ19970336094	19971202
NZ512097 A	20050527	NZ19970512097	19971202
NZ538260 A	20070928	NZ19970538260	19971202
NZ547206 A	20071221	NZ19970547206	19971202
NZ552215 A	20080430	NZ19970552215	19971202
PT941089 T	20011130	PT19970945697T	19971202
RU2004126705 A	20060210	RU20040126705	20040903
RU2242974 C2	20041227	RU19990114020	19971202
RU99114020 A	20010527	RU19990114020	19971202
TW562674 B	20031121	TW19970118104	19971202
US2002013298 AA	20020131	US19990368463	19990804
US2002037919 AA	20020328	US19970980549	19971201
US2002183380 AA	20021205	US20020067467	20020205
US2003157187 AA	20030821	US20020172737	20020613
US2005249770 AA	20051110	US20050102587	20050408
US2008113035 AA	20080515	US20070891651	20070810
US2008153900 AA	20080626	US20070891661	20070810
US6495579 BA	20021217	US19980088546	19980601
US6515016 BB	20030204	US19970980549	19971201
US6689803 BB	20040210	US20020067467	20020205
WO9824427 A2	19980611	WO1997CA00910	19971202
WO9824427 A3	19981001	WO1997CA00910	19971202
WO9962510 A2	19991209	WO1999CA00464	19990601
WO9962510 A3	20000406	WO1999CA00464	19990601

Priority:

US19960032215P	19961202	US19970063087P	19971024	US19970980549	19971201
AU19980051132	19971202	EP20000123537	19971202	EP19970945697	19971202
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US19980088546	19980601	WO1999CA00464	19990601	WO1997CA00910	19990602
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US20020067467	20020205	US20020172737	20020613	AU20040200715	20040220
US20050102587	20050408	AU20060220416	20060920	AU20060220416	20060920
US20070891651	20070810	US20070891661	20070810		

Probable Assignee: IPXMEDICAL LLC

Assignee(s): (std): ANGIOTECH INT AG ; ANGIOTECH INT GMBH ; ANGIOTECH INT GMBH ZUG ; ANGIOTECH INTERNAT GMBH ; ANGIOTECH INTERNAT GMBH ZUG ; ANGIOTECH PHARM INC ; HUNTER WILLIAM L ; ANGIOTECH PHARMACELITICALS INC ; ANGIOTECH PHARMACEUTICALS INC ; BLOOD VESSEL TECHNOLOGY INTERN

Assignee(s): ANGIOTECH INTIONAL AG ; BLOOD VESSEL TECHNOLOGY INTERNATIONAL S A ; ANGIOTECH INT ; IPXMEDICAL LLC ; BLOOD VESSEL TECHNOLOGY INT SA ; ANGIOTECH INTERNATIONAL AG ; ANGIOTECH INTERNATIONAL GMBH ; ANGIOTECH INTERNATIONAL GMBH ZUG ; ANGIOTECH INTIONAL ; ANGIOTECH INTERANTIONAL AG ; ANGIOTECH INTERNAT AG ; ANGIOTECH INT GMBH BUNDESPLATZ 1 6304 ZUG SWITZERLAND

Inventor(s): (std): HUNTER L ; HUNTER W L ; HUNTER WILLIAM L ; HUNTER WILLIAN L ; WILLIAM L HUNTER ; WILLIAN L HUNTER ; KHANTER VILL JAM L

Inventor(s): WL HUNTER ; KHANTER VILL'JAM L. ; W L HUNTER ; HUNTER WILLIAM

Agent(s): DAVIES COLLISON CAVE ; DAVIES COLLISON CAVE PTY LTD ; BARRIGAR INTELLECTUAL PROPERTY LAW ; BERESKIN AND PARR LLP SENCRL SRL ; VILLASECA ; GOWSHALL JONATHAN VALLANCE ; CLT PATENT AND TRADEMARK HK LTD UNIT 10 34 F OFFICE TOWER CONVENTION PLAZA ; LOVELLS ; SEED INTELLECTUAL PROPERTY LAW GROUP PLLC

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

102) Family number: 3566349 (US5183182A)

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Title: LIQUID DISPENSER FOR VERTICAL WALL MOUNTING

Abstract: A liquid dispenser device comprising a shell adapted to be wall-mounted substantially vertically in a bathing or washing area and to removably and replaceably receive and hold one or more elongate bottles for liquids useful before, after, or while bathing, each bottle having a valve assembly operable by a push button along an axis extending substantially normal to the longitudinal axis of its associated bottle as positioned substantially vertically for use. The shell has a hinged and preferably lockable cover part that can be propped open when raised for allowing a bottle to be removed for refilling. Most of the components of the dispenser device are preferably fabricated from a thermoplastic material, as by well-known injection molding techniques.

Classifications:

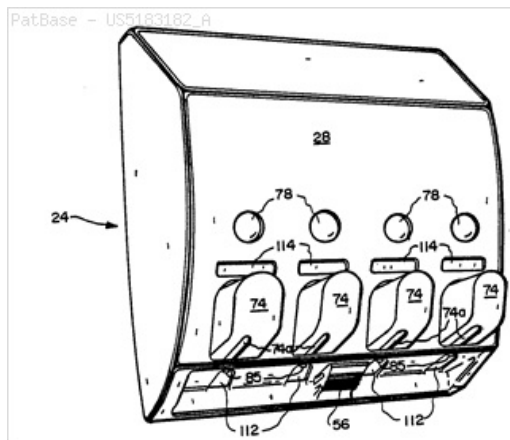
International (IPC 8-9): A47K5/12 B67D3/00 (Advanced/Invention); A47K5/00 (Core/Invention)

International (IPC 1-7): A47K5/12 B67D3/00 B67D5/06 B67D5/52 B67D5/56 B67D5/60

CPC: A47K5/12

European: A47K5/12

US: 222/129 222/135 222/153 222/153.03 222/153.09 222/156 222/181 222/181.2 222/325 222/341 222/514 222/559



Family:

Publication number	Publication date	Application number	Application date
AT173448 E	19981215	AT19920907317T	19920211
AU199214315 A1	19920907	AU19920014315	19920211
CA2103806 AA	19930810	CA19922103806	19920211
CA2103806 C	20021210	CA19922103806	19920211
DE69227625 D1	19981224	DE19926027625	19920211
EP0572535 A1	19931208	EP19920907317	19920211
EP0572535 A4	19951108	EP19920907317	19920211
EP0572535 B1	19981118	EP19920907317	19920211
US5183182 A	19930202	US19910653142	19910211
US5452825 A	19950926	US19930098340	19931012
WO9213795 A1	19920820	WO1992US01182	19920211

Priority:

US19910653142 19910211 WO1992US01182 19920211 US19930098340 19931012

Probable Assignee: BETTER LIVING PRODUCTS INT INC

Assignee(s): (std): BETTER LIVING PRODUCTS INC ; BETTER LIVING PRODUCTS

Assignee(s): BETTER LIVING PRODUCTS A CORP ; BETTER LIVING PRODUCTS INT ; BETTER LIVING PRODUCTS INT INC ; BETTER LIVING PRODUCTS INTIONAL ; BETTER LIVING PRODUCTS PROVO UTAH US ; COMSTOCK ROGER D ; PEARCE WAYNE E ; TISCHNER RYAN K

Inventor(s): (std): PEARCE WAYNE ; COMSTOCK ROGER ; TISCHNER RYAN ; TISCHNER RYAN K ; PEARCE WAYNE E ; COMSTOCK ROGER D

Inventor(s): TISCHNER RYAN K OREM UT 84057 US ; WAYNE E PEARCE ; COMSTOCK ROGER D OREM UT 84057 US ; PEARCE WAYNE E PROVO UT 84604 US ; ROGER D COMSTOCK ; RYAN K TISCHNER

Agent(s): RICHES MCKENZIE AND HERBERT LLP

Designated states: AT AU BE CA CH DE DK ES FR GB GR IT JP KR LI LU MC NL NO SE US

103) Family number: 1538349 (US4173858A)

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Title: Soap dispensing system

Abstract: A liquid soap dispensing system includes a closed soap container having a manually actuated dispensing pump carried therebeneath. Refill of the container is by a plastic refill squeeze bottle with a neck defining an outlet opening closed by a membrane recessed therein. One embodiment of the bottle is formed by ultrasonically welding in the neck end, after the bottle is filled, a plug defining a cylindrical sleeve closed at the inner end thereof by a closure wall. The neck is inserted into a well in the top of the container, and a hollow piercing member at the bottom of the well ruptures the membrane or closure member, whereupon soap may be squeezed from the bottle and through the passage through the hollow piercing member, which is constricted by septa dividing the passage into channels such that flow of liquid soap therethrough at equal pressures at both ends of the passage is substantially inhibited. The piercing member is in sealing engagement with the plug sleeve, and annular ribs on the neck are in sealing engagement with the well side wall.

Classifications:

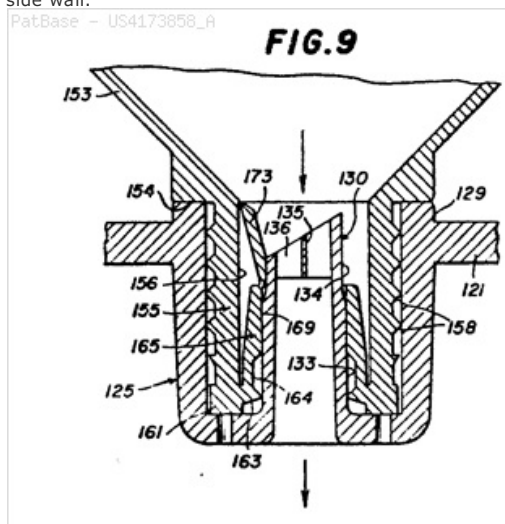
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International (IPC 1-7): A47K5/12 B65B3/04 B65B51/22 B65D47/36 B67B1/08 B67D3/00 B67D5/00 D06F39/02

CPC: A47K5/12

European: A47K5/12

US: 141/18 141/330 53/471 53/478



Family:

Publication number	Publication date	Application number	Application date
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Priority:

IT19770028347 19771006 CA19780312836 19781006

Probable Assignee: STEINER CO INT SA

Assignee(s): (std): STEINER CO INT SA ; STEINER CO LAUSANNE SA ; STEINER CORP

Assignee(s): CASSIA ANTONIO M ; STEINER COMPANY INTERNATIONAL S A ; STEINER CO INTERNATIONAL SA

Inventor(s): (std): ANTONIO MATSUCHI KASHIA ; CASSIA ANTONIO M ; CASSIA ANTONIO MACCHI

Agent(s): HEWITT NEVILLE S

Designated states: BE CH DE FR GB NL SE

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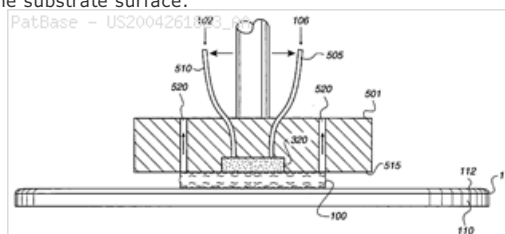
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Title: METHOD AND APPARATUS FOR REMOVING A TARGET LAYER FROM A SUBSTRATE USING REACTIVE GASES

Abstract: A system and method for removing a layer from a substrate surface is provided. The method includes providing at least one encapsulating transport, where the encapsulating transport contains at least some reactive gas. At least one encapsulating transport is applied to the layer, and the layer is a chemically reactive layer. The encapsulating transport ruptures on the chemically reactive layer and releases the reactive gas in combination with a reaction inducing agent onto the chemically reactive layer to facilitate removal of the layer from the substrate surface.

Classifications:

International (IPC 8-9): B08B3/00 B08B3/08 B08B3/12 B08B5/00 B08B7/00 B08B7/04 C11D1/04 C11D11/00 C11D17/00 C11D3/20 H01L21/00 H01L21/306 B08B3/02 B08B3/04 B08B3/10 B08B5/04 C09G1/00 C09G1/02 C09K13/00 C11D1/00 C11D1/02 C11D1/12 C11D1/28 C11D1/34 C11D17/08 C11D3/02 C11D3/04 C11D3/14 C11D3/16 C11D3/26 C11D3/30 C11D3/32 C11D3/43 C11D7/26 C11D7/32 C11D7/50 C11D9/00 C11D9/26 C23G1/00 C23G1/14 C25F1/00 G02F1/13 G02F1/1333 G03F7/42 H01L21/02 H01L21/027 H01L21/30 H01L21/302 H01L21/304 H01L21/311 H01L21/67 H05K3/26 (Advanced/Invention);



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Family:

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Probable Assignee: LAM RESEARCH CORP

Assignee(s): (std): DE LARIOS JOHN M ; DELARIOS JOHN ; DELARIOS JOHN M ; FARBER JEFFREY J ; FREER ERIK M ; LAM RES CORP ; MIKHAYLICHENKO KATRINA ; KOROLIK MIKHAIL ; LARIOS JOHN M DE ; RAVKIN MICHAEL ; REDEKER FRED C ; THOMAS CLINT ; PARKS JOHN ; REDEKER FRITZ C ; RAVKIN MIKE ; REDEKER FRED ; WOODS CARL ; ZHU JI ; REDEKER FRITZ ; LAM RESERCH CORP ; IICHENKO KATRINA MIKHAY

Assignee(s): LAM RESEARCH CORP FREMONT ; LAM RESEARCH CORPORATION ; LAM RESEARCH CORPORATIONUS ; LAM RESEARCH CORP

Inventor(s): (std): DELARIOS JOHN M ; FARBER JEFFREY J ; FRED REDEKER ; FREER ERIK M ; FREER ERIK M DE LARIOS JOHN M ; KOROLIK MIKHAIL ; LARIOS JOHN M DE ; MIKE RAVKIN ; MIKHAYLICHENKO KATRINA ; RAVKIN MICHAEL ; REDEKER FRED ; REDEKER FRED C ; WOODS CARL ; ZHU JI ; JOHN PARKS ; DE LAROS JOHN M ; CLINT THOMAS ; FREER ERIC M ; DE LARIOS JOHN M ; THOMAS CLINT ; REDEKER FRITZ C ; REDEKER FRITZ ; RAVKIN MIKE ; PARKS JOHN ; MIKHAYLINCHENKO KATRINA ; FREER ERIK ; FRED C REDEKER ; ERIK M FREER ; DE LAROS JOHN ; MIKHAIL KOROLIK ; MICHAEL RAVKIN ; KATRINA MIKHAYLICHENKO ; JOHN M DE LARIOS ; IICHENKO KATRINA MIKHAY ; FRITZ C REDEKER ; DELARIOS JOHN

Inventor(s): DE LARIOS JOHN ; LARIOS JOHN MDE ; MIKHAYLICHENKO KATRINA AND ; M DE LARIOS JOHN M ; KOROLIK MIKHAIL AND ; KATRINA MIKHAYLINCHENKO ; MIKHAYLICHENKO KATRINA SAN JOSE ; FREER ERIK M CAMPBELL

Agent(s): WALKER ROSS THOMSON; WOMBWELL FRANCIS; KONTRUS GERHARD; Kontrus Gerhard; DERRY PAUL STEFAN ET AL; ALLEN AND GLEDHILL LLP; INFINITUS LAW CORP; MARTINE PENILLA AND GENCARELLA LLP; MARTINE PENILLA GROUP LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: Water and soap dispensing scrubber apparatus

Abstract: A primary fluid, e.g. water, and auxiliary fluid, e.g. soap, dispensing scrubber apparatus includes a pistol-shaped housing which has a hand-grip portion and a scrubber-holder portion. A primary fluid conveyance assembly includes, in sequence, an inlet end, a pre-valve conduit, a valve assembly, a post-valve conduit, and an outlet end. A flexible hose has one end connected to the inlet end of the primary fluid conveyance assembly and has another end which includes a faucet connector. Rechargeable batteries are housed within the housing and power a DC motor. A trigger-containing switch assembly is connected between the motor and the batteries. A drive shaft is connected to the motor, and a scrubber head is connected to the drive shaft. A spray nozzle is connected to the outlet end of the post-valve conduit. The drive shaft is hollow and forms a portion of the post-valve conduit of the primary fluid conveyance assembly. A fluid-tight seal is connected between a lead-in portion of the post-valve conduit and the hollow drive shaft. A motor armature includes a hollow armature shaft which serves as the drive shaft and also forms a portion of the post-valve conduit of the primary fluid conveyance assembly. The scrubber head may be in the form of a brush or a sponge. A container assembly, connected to the housing, contains a quantity of an auxiliary fluid which is moved to the valve assembly through a feed tube.

Classifications:

International (IPC 8-9): A46B13/04 B08B1/04 (Advanced/Invention);

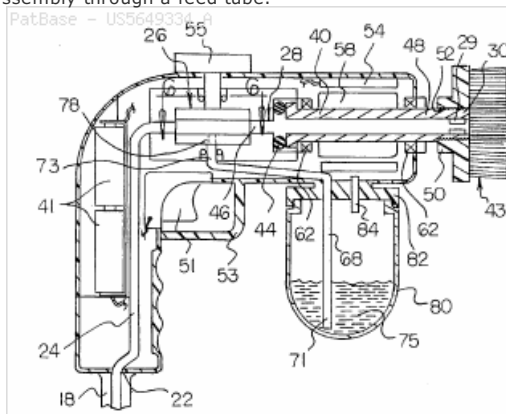
A46B13/00 B08B1/04 (Core/Invention)

International (IPC 1-7): A46B13/04

CPC: A46B13/04 B08B1/04

European: A46B13/04 B08B1/04

US: 15/29 15/290 15/97.1 15/971



Family:

Publication number	Publication date	Application number	Application date
US5649334 A	19970722	US19960612237	19960307

Priority:

US19960612237 19960307

Probable Assignee: MATIAS EVELIA G

Assignee(s): (std): HENRIQUEZ JORGE DE JESUS MATIA ; MATIAS EVELIA G

Assignee(s): HENRIQUEZ JORGE DE JESUS MATIAS

Inventor(s): (std): HENRIQUEZ JORGE DE JESUS MATIA ; MATIAS EVELIA G

Inventor(s): HENRIQUEZ JORGE DE JESUS MATIAS

106) Family number: 60886362 (WO13095459A1)

Title: SYSTEM, METHOD, AND APPARATUS FOR ELECTRONIC PATIENT CARE

Abstract: A system for electronic patient care includes a hub. The hub is configured to monitor a patient-care device. The sandbox may be configured to control access to at least one of a hardware resource and a software resource. The hub is further configured to identify the patient-care device and execute an application to monitor the patient-care device. The hub executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component. The hub may be further configured to control the patient-care device. The hub may be further configured to receive an identification from the patient-care device and download the application from a server associated with the identification. The hub may be further configured to receive an identification from the patient-care device and update the application from a server associated with the identification.

Classifications:

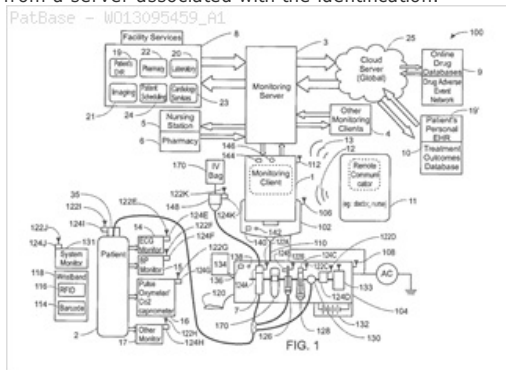
International (IPC 8-9): A61B5/00 A61G12/00 A61J3/00 A61M5/168

G06F19/00 G06F21/53 G06Q50/22 G16H40/40

G16H40/60 (Advanced/Invention)

CPC: G06F19/3456 G06F19/3418 G06F19/3462 G06F19/3468

G16H10/60 G16H10/65 G16H40/40



Family:

Publication number	Publication date	Application number	Application date
AU2011383571 AA	20140717	AU20110383571	20111221
AU2018206793 AA	20180809	AU20180206793	20180719
CA2860156 AA	20140620	CA20112860156	20111221
CA2986542 AA	20130627	CA20112986542	20111221
EP2795492 A1	20141029	EP20110820830	20111221
JP2015508526 A2	20150319	JP20140548763	20111221

JP2015508526 T2	20150319	JP20140548763T	20111221
JP2016219045 A2	20161222	JP20160154571	20160805
JP2018113029 A2	20180719	JP20170246077	20171222
JP6196237 B2	20170913	JP20140548763T	20111221
JP6294919 B2	20180314	JP20160154571	20160805
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MX354308 B	20180222	MX20140007748	20111221
NZ626636 A	20160226	NZ20110626636	20111221
WO13095459 A1	20130627	WO2011US66588	20111221
WO13095459 A9	20130912	WO2011US66588	20111221

Priority:

AU20110383571 20111221 JP20140548763T 20111221 CA20112986542 20111221
CA201112860156 20111221 WO2011US66588 20111221 JP20160154571 20111221
JP20160154571 20160805 CA20172860156 20171201 JP20170246077 20171222
AU20180206793 20180719

Probable Assignee: DEKA PRODUCTS LP

Assignee(s): (std): BALLANTYNE TODD A ; BIASI JOHN J ; DEKA PRODUCTS LP ; KERWIN JOHN M ; KAMEN DEAN ; SCARPACI JACOB W ; TURNER JAMES G

Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD ; DEKA PRODUCTS PARTNERSHIP LTD340 COMMERCIAL STREETMANCHESTERNH03101US ; DECA PRODUCTS PARTNERSHIP LTD

Inventor(s): (std): JAMES G TURNER ; JACOB W SCARPACI ; KERWIN JOHN M ; SCARPACI JACOB W ; KAMEN DEAN ; BALLANTYNE TODD A ; BIASI JOHN J ; JOHN J BIASI ; JOHN M KERWIN ; TURNER JAMES G ; TODD A BALLANTYNE

Inventor(s): TURNER JAMES GUS ; BIASI JOHN JUS ; BALLANTYNE TODD AUS ; KERWIN JOHN MUS ; SCARPACI JACOB WUS ; KAMEN DEANUS

Agent(s): GRIFFITH HACK ; GOWLING LAFLEUR HENDERSON LLP ; GOWLING WLG CANADA LLP ; CHAPMAN PATRICK ; YAMASAKI YUKUZO ; AKAMATSU TOSHIAKI ; GORAYEB MARC J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

107) Family number: 34294363 (US2006173985A)

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Title: ENHANCED SYNDICATION

Abstract: A variety of tools and techniques are disclosed for managing, viewing, publishing, searching, clustering, and otherwise manipulating data streams. Data streams such as RSS data feeds may be searched, aggregated, and filtered into a processed feed. The processed feed, along with rules used to process the feed may be shared in a number of ways. A data feed management system may provide an integrated user interface through which a user may manage feeds, including searching for new feeds, managing and filtering current feeds, modifying a user profile, and sharing feeds and feed configuration data with other users. A server may provide a complementary search engine to locate new feeds and to store and/or index items or posts in known feeds. Together, these technologies may provide a richly-functioned feed management system and greater ease of use for individuals in managing large numbers of feeds and large amounts of data in feeds. Additional functional layers may provide for authentication, security, and privacy, metadata creation and management, and social networking features. Using the management tools and additional functionality, a syndicated data stream system may provide a platform for a wide array of useful consumer and business applications.

Classifications:

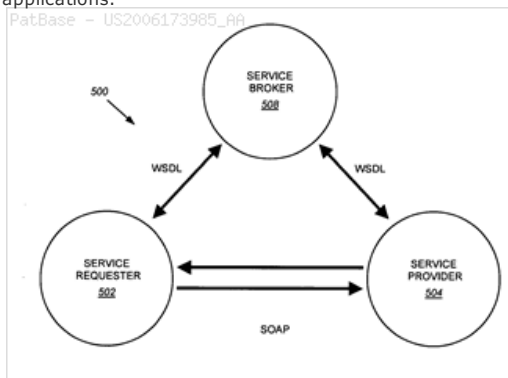
International (IPC 8-9): A21B1/00 A21B1/22 C23C16/44 F27D11/00 F27D99/00 G06F15/16 G06F15/173 G06F17/00 G06F17/30 G06F19/00 G06F21/00 G06F21/60 G06F21/62 G06F3/14 G06F7/00 G06F7/06 G06Q10/00 G06Q30/00 G06Q40/00 G06Q50/00 G06Q50/24 G06Q99/00 H04J3/02 H04L29/06 H04L29/08 H04L9/00 H04L9/32 H05B1/00 H05B3/62 (Advanced/Invention); G06F17/30 (Advanced/Non-invention); A21B1/00 F27D11/00 F27D23/00 G06F15/16 G06F17/00 G06F17/30 G06F19/00 G06F21/00 G06F3/14 G06F7/06 G06Q10/00 G06Q30/00 G06Q50/00 G06Q99/00 H04J3/02 H04L9/00 H04L9/32 H05B1/00 (Core/Invention)

CPC: F27B5/04 F27B17/0025 F27D99/0006 G06Q10/109 G06F21/604 G06F19/321 H04L63/1441 H04L63/0823 H04L63/08 G06Q30/0277 G06Q10/10 G06Q50/24 G06F2221/2107 G06F16/6254 G06F21/6227 G06F21/602 H04L63/083 G06F2221/2145 G06F2221/2101 H04L12/66 H04L63/20 G06F21/6263 G06F19/328 G06F19/325 H04L12/1859 H04L67/12 H04L67/00 H04L69/40 H04L67/1095 H04L41/5045 H04L41/22 G06F8/36 H04L69/16 A61B8/565 A61B6/566 H04L67/16

A61B5/0002 H04L67/2823 H04L67/28 H04L2209/60 H04L2209/56 H04L9/3226 G06Q30/0269 G06Q30/0264 H04L63/0428 G06F2221/2115 G06F21/31 H04L63/105 G06F19/326 G06F21/6245 G06Q10/00 G06Q40/04 G06Q30/0603 Y02P90/84 G16H40/20 G16H15/00 G06F19/3456 G06Q50/00 G06F19/324 H04W4/21 G16H40/63 G16H50/70 G16H10/60 G16H40/40 G16H80/00 G06F16/958 H04L67/02 G06F16/27 G06F16/955 G06F16/273 G06F16/9535 G06Q30/0273 H04L67/2838 H04L67/26 G06F16/83 G06Q30/02 G06Q30/0201 G06Q50/22 G06Q50/16

European: F27B17/00B1 F27B5/04 F27D99/00A4 G06F17/30S7 G06F17/30S7A G06F17/30W1F G06F17/30W5 G06F17/30W7 G06F19/32C G06F19/32E G06F19/32E1 G06F19/32G G06F19/32H G06F19/34J G06F19/34P G06F21/31 G06F21/60B G06F21/62B5 G06F21/62B5A G06F21/62B5B G06F8/36 G06Q10/00 G06Q10/10 G06Q10/109 G06Q10/10T G06Q30/02 G06Q30/0201 G06Q30/0264 G06Q30/0269 G06Q30/0273 G06Q30/0277 G06Q30/0603 G06Q30/06C G06Q40/04 G06Q50/00 G06Q50/16 G06Q50/22 G06Q50/24 H04L12/24F3 H04L12/24F3 H04L12/24S2A H04L12/66 H04L29/08N H04L29/08N1 H04L29/08N11 H04L29/08N25 H04L29/08N27 H04L29/08N27F H04L29/08N27I H04L29/08N9R H04L29/14 H04L41/22 H04L41/50G1 H04L63/08 H04L63/08D H04L63/20 H04L9/32 S06F19/32C S06F19/32E S06F19/32G S06F19/34L S06F221/2101 S06F221/2115 S06F221/2119 S06F221/2145 T04L12/18P T04L12/24F3 T04L29/06J T04L29/08N1 T04L41/22 T04L63/04B T04L63/08D

US: 1/1 1/P 219/200 219/385 219/391 219/406 257/E21.190S 370/352 370/352S 370/401 370/401S 370/462 370/462P 438/592P 705/10 705/10P 705/10S 705/14 705/14.61 705/14.610P 705/14.66 705/14.660S 705/14.69 705/14.690P 705/14.73 705/14.730S 705/2 705/2P 705/2S 705/3 705/313 705/313S 705/3P 705/3S 705/4 705/50 705/50P 705/51 705/51P 705/7.29 705/7.290P 707/10 707/104.1 707/3 707/4 707/661 707/667 707/667P 707/707 707/791 707/795 707/796 707/802 707/822 707/828 707/999.003 707/999.003S 707/999.004 707/999.004S 707/999.01 707/999.010S 707/999.104 707/999.104S 707/999.107 707/999.107S 707/E17.005 707/E17.005S 707/E17.008 707/E17.008S 707/E17.014 707/E17.014S 707/E17.032 707/E17.032S 707/E17.044 707/E17.044S 707/E17.07 707/E17.070S 707/E17.112 707/E17.116 707/E17.116S 709/201 709/201P 709/201S 709/202 709/203 709/203P 709/204 709/204S 709/217 709/217P 709/219 709/223 709/223P 709/223S 709/246 709/246P 713/156 713/166 715/273 715/273S 726/1 726/1P 726/2 726/27 726/30 726/5 726/5S



Family:

Publication number	Publication date	Application number	Application date
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US2006173985 AA	20060803	US20050223826	20050910
US2006265489 AA	20061123	US20060380923	20060429
US2007050446 AA	20070301	US20060458092	20060717
US2007056950 AA	20070315	US20050233826	20050909
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Priority:

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US20070973480P 20070919
US20080233266 20080918
US20120682815 20121121

Probable Assignee: NEWSILIKE MEDIA GROUP INC**Assignee(s):** (std): APPLIED MATERIALS INC ; COOK ROBERT C ; LABOVITCH BELA A ; MOORE JAMES ; MOORE JAMES F ; NEWSILIKE MEDIA GROUP INC ; NEWSILIKE MEDIA GROUP INC ; YUDOVSKY JOSEPH ; WOOD CHARLES B ; WOOD CHARLES**Inventor(s):** (std): LABOVITCH BELA A ; MOORE JAMES ; MOORE JAMES F ; WOOD CHARLES ; WOOD CHARLES B ; YUDOVSKY JOSEPH ; COOK ROBERT C**Inventor(s):** LABOVITCH BELA ; COOK ROBERT**Agent(s):** SMART AND BIGGAR; PETERREINS FRANK; STRATEGIC PATENTS PC; PATTERSON AND SHERIDAN LLP; FISH AND RICHARDSON PC; GTC LAW GROUP LLP AND AFFILIATES; CHARLES; JOHN A; NORTRUP JOHN**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**108) Family number: 60886368 (WO13177357A1)**

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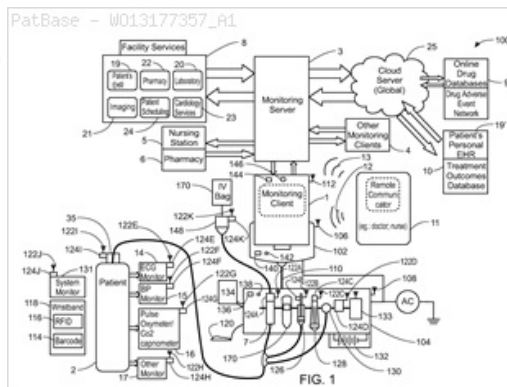
Title: METHOD AND SYSTEM FOR COMMUNICATION BETWEEN A MONITORING CLIENT AND A BASE

Abstract: A method, related system and apparatus are disclosed. The method is implemented by an operative set of processor executable instructions configured for execution by a processor. The method includes the acts of: determining if a monitoring client is connected to a base through a physical connection; establishing a first communications link between the monitoring client and the base through the physical connection; updating, if necessary, the interface program on the monitoring client and the base through the first communications link; establishing a second communications link between the monitoring client and the base using the first communications link; and communicating data from the base to the monitoring client using the second communications link.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61G12/00
A61M1/14 A61M5/172 G06F19/00 G06Q50/22 G16H40/63 G16H50/20
H04L12/28 H04W76/25 (Advanced/Invention);
A61J7/00 A61M5/14 (Advanced/Non-invention)

CPC: A61B5/0022 A61B5/11 G06F3/0481 H04L45/02 H04L67/12
A61B5/7465 H04L67/02 G06F19/3418 G16H10/60 G16H40/20
G16H40/40



Priority:

US20120480444 20120524 US20120651322P 20120524 WO2012US00257 20120524
JP20150514172T 20130523 WO2013US42350 20130523

Probable Assignee: DEKA PRODUCTS LP**Assignee(s):** (std): DEKA PRODUCTS LP**Assignee(s):** DEKA PRODUCTS PARTNERSHIP LTD ; DEKA PRODUCTS PARTNERSHIP LTD340 COMMERCIAL STREETMANCHESTERNH03101US ; ROSSE JONATHAN P ; WILT MICHAEL J ; YEE BRIAN K ; BALLANTYNE TODD A**Inventor(s):** (std): BALLANTYNE TODD A ; ROSSE JONATHAN P ; WILT MICHAEL J ; YEE BRIAN K ; TODD A BALLANTYNE ; JONATHAN P ROSSE ; BRIAN K YEE**Inventor(s):** YEE BRIAN KUS ; WILT MICHAEL JUS ; ROSSE JONATHAN PUS ; BALLANTYNE TODD AUS**Agent(s):** GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; CHAPMAN PATRICK; YAMASAKI YUKUZO; AKAMATSU TOSHIKI; WYNINEGAR JAMES D JR**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**109) Family number: 1308370 (US4098435A)**

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Title: Stabilized dentrifice containing initially physically separated normally reactive components

Abstract: A stabilized and extrudable paste or gel dentifrice comprises two dentifrice portions, each of which includes a component which is chemically reactive with the other such component in the other portion, with the portions being maintained separate from each other in a dispensing container from which they are dispensable together through a closable opening therein in response to pressure. One of the reactive components is an alkali metal fluorine-containing salt such as sodium fluoride or sodium monofluorophosphate, used for its effect in hardening tooth enamel, and the other is a water insoluble calcium salt, such as dicalcium phosphate, tricalcium phosphate or calcium carbonate, used as a polishing agent. The dentifrice portions are preferably separated by an extrudable material, such as a polyhydric alcohol-water gel of a gum, such as sodium carboxymethyl cellulose. Also within the invention is a method for the manufacture of the mentioned dentifrice.

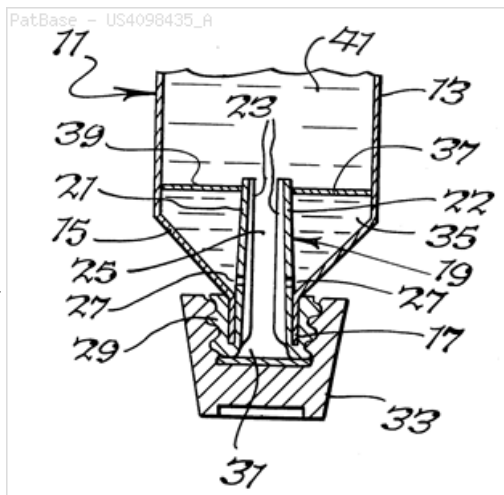
Classifications:

International (ipc 8-9): A47K5/00 A47K5/18 A61K8/00 A61K8/21 A61K8/24 A61Q11/00 B65D25/08 B65D35/22 B65D35/24 B65D35/44 B65D81/32 B65D83/00 (Advanced/Invention); A61K8/00 A61Q11/00 B65D83/00 (Advanced/Non-invention); A47K5/00 A61K8/00 A61K8/19 A61Q11/00 B65D25/04 B65D35/00 B65D35/24 B65D81/32 B65D83/00 (Core/Invention); A61C A61K B65D (Subclass/Invention)

International (ipc 1-7): A47K5/00 A47K5/18 A61C A61K5/00 A61K7/16 A61K7/18 A61K7/20 A61K7/24 B65D25/08 B65D35/22 B65D35/44 B65D81/32

CPC: A61K8/0237 A61K8/21 A61K8/24 A61K2800/88 A61Q11/00 B65D35/22 B65D35/242

European: A61K7/16P A61K7/18 A61K8/02M5S A61K8/21 A61K8/24 A61Q11/00 B65D35/22 B65D35/24B K61K201/143 K61K201/144 K61K201/15 K61K800/88

US: 222/94**Family:**

Publication number	Publication date	Application number	Application date
AU197727598 A1	19790208	AU19770027598	19770803
AU520268 B2	19820121	AU19770027598	19770803
BE857751 A	19771201	BE19770180136	19770812
CA1087560 A1	19801014	CA19770284699	19770815
CH635793 A	19830429	CH19770010030	19770816
DE2736629 A1	19780223	DE19772736629	19770813
DE2736629 C2	19901115	DE19772736629	19770813
DK164035 B	19920504	DK19770003649	19770816
DK164035 C	19920928	DK19770003649	19770816
DK364977 A	19780217	DK19770003649	19770816
FR2361851 A1	19780317	FR19770024526	19770809
FR2361851 B1	19810522	FR19770024526	19770809
GB1561418 A	19800220	GB19770034192	19770815
IT1107689 A	19851125	IT19770050681	19770812
JP53041441 A2	19780414	JP19770098174	19770816
MX5419 U	19830729	MX19770101099U	19770810
MY8800155 A	19881231	MY19880000155	19881230
SE7709078 A	19780217	SE19770009078	19770811
SE7709078 L	19780217	SE19770009078	19770811
US4098435 A	19780704	US19760714736	19760816
US4211341 A	19800708	US19780876709	19780210
ZA7704694 A	19790328	ZA19770004694	19770803

Priority:

US19760714736 19760816 MX19770170199 19770810 CA19770284699 19770815

Probable Assignee: COLGATE PALMOLIVE CO**Assignee(s):** (std): COLGATE PALMOLIVE CO**Assignee(s):** COLGATE PALMOLIVE CO NEW YORK N Y US ; COLGATE PALMOLIVE CO SOC' DELLO STATO DEL ; COLGATE PALMOLIVE CO SOC DELLO STATO DEL DELAWARE ; COLGATE PALMOLIVE COMPANY ; COLGATE PALMOLIVE CY ; WEYN HENDRIK F ; COLGATE PALMOLIVE**Inventor(s):** (std): HENDORITSUKU FURANSU UEIN ; MEYN HENDRIK FRANS ; WEYN H ; WEYN H F ; WEYN HENDRIK F ; WEYN HENDRIK FRANS**Inventor(s):** WEYN HENDRIK FRANS LE CHESNAY FR ; WEYN HENRIK FRANS ; HENDRIK FRANS MEYN ; HENDRIK FRANS WEYN ; FRANS WEYN HENDRIK ; H F WEYN**Agent(s):** FB RICE PTY LTD; SMART AND BIGGAR**110) Family number: 49906371 (US2012003027A)**

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Title: LIQUID APPLICATOR DEVICE

Abstract: A liquid applicator device is disclosed for applying a liquid from a container to a surface. A closure defining a closure aperture is secured the closure to the container. A sealing member sealingly engages with the closure mounting. The sealing member has a tubular sleeve with an applicator slidably disposed within the tubular sleeve. The applicator comprises a hollow interior with an applicator tip defined by an outer applicator portion of the applicator. A biasing member coacts between the closure and the applicator for urging the applicator to form a seal with the sealing member. A depression of the outer applicator portion against the surface displaces the applicator from the sealing member to enable the flow of the liquid from the container to the applicator tip of the applicator.

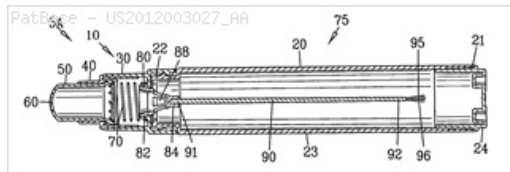
Classifications:

International (IPC 8-9): B05C1/00 B05C1/04 B05C17/00 B08B1/00 B43K1/00 B43K23/12 B43K29/00 B43K5/00 B43K8/00 B43M11/06 B65D47/24 B65D47/42 B65D51/32 (Advanced/Invention); A46B11/00 A46B5/00 (Advanced/Non-invention)

CPC: B43K8/00 A46B5/0016 A46B11/0006 A46B11/001 B08B1/00 B43K1/00 B43K23/12 B43K29/00 B43M11/06 B65D47/42 B65D51/32 B65D47/248

European: A46B11/00C B08B1/00 B43K1/00 B43K23/12 B43K29/00 B43K8/00 B43M11/06 B65D47/42 B65D51/32 K46B11/00 K46B5/00A6

US: 1/1 401/108 401/108P 401/126 401/126S

**Family:**

Publication number	Publication date	Application number	Application date
CA2798015 AA	20121031	CA20112798015	20110506
CA2798015 C	20180501	CA20112798015	20110506
EP2566630 A1	20130313	EP20110777707	20110506
EP2566630 A4	20140730	EP20110777707	20110506
US2012003027 AA	20120105	US20110068261	20110506
US9211756 BB	20151215	US20110068261	20110506
WO11139374 A1	20111110	WO2011US00795	20110506

Priority:

US20100343981P 20100506 US20110068261 20110506 WO2011US00795 20110506

Probable Assignee: FLOCON INC**Assignee(s):** (std): BALLOT STEPHAN M ; FLOCON INC**Inventor(s):** (std): BALLOT STEPHAN M**Agent(s):** LESPERANCE AND MARTINEAU SENC; Von Rohr; FRIJOUF RUST AND PYLE PA; FRIJOUF ROBERT F ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

111) Family number: 60886372 (WO14100687A3)

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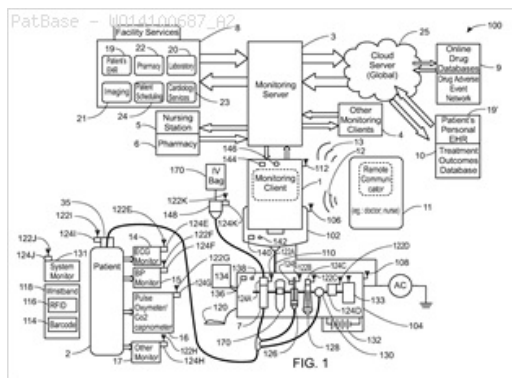
Title: SYSTEM, METHOD, AND APPARATUS FOR ELECTRONIC PATIENT CARE

Abstract: A method, related system and apparatus are disclosed. The method is implemented by an operative set of processor executable instructions configured for execution by a processor. The method includes the acts of: determining if a monitoring client is connected to a base through a physical connection; establishing a first communications link between the monitoring client and the base through the physical connection; updating, if necessary, the interface program on the monitoring client and the base through the first communications link; establishing a second communications link between the monitoring client and the base using the first communications link; and communicating data from the base to the monitoring client using the second communications link.

Classifications:

International (IPC 8-9): A61B5/00 A61M5/168 A61M5/172 G06F19/00 G06F19/28 G06Q50/24 G16H20/00 G16H20/10 G16H40/60 G16H50/00 (Advanced/Invention)

CPC: G06F19/3468 G06F19/326 G06F19/3456 H04L63/105 G16H40/63 G16H50/50 G06F19/3418



Family:

Publication number	Publication date	Application number	Application date
AU2013364131 AA	20150709	AU20130364131	20131220
AU2013364131 AB	20151029	AU20130364131	20131220
AU2013364131 AH	20150903	AU20130364131	20131220
BR112015015024 A2	20170711	BR20151115024	20131220
CA2896086 AA	20150619	CA20132896086	20131220
CN104969227 A	20151007	CN201380072039	20131220
EP2936362 A2	20151028	EP20130826687	20131220
EP2936362 B1	20190320	EP20130826687	20131220
JP2016509284 T2	20160324	JP20150549809T	20131220
MX2015008061 A1	20160317	MX20150008061	20131220
MX355476 B	20180418	MX20150008061	20131220
RU2015129763 A	20170126	RU20150129763	20131220
RU2015129763 A3	20180515	RU20150129763	20131220
SG11201504879S A1	20150730	SG20151104879	20131220
WO14100687 A2	20140626	WO2013US77135	20131220
WO14100687 A3	20140904	WO2013US77135	20131220

Priority:

US20120723239	20121221	US20120723253	20121221	US20120723242	20121221
US20120740474P	20121221	US20130900655	20130523	WO2013US42350	20130523
RU20150129763	20131220	US20130136243	20131220	WO2013US77135	20131220

Probable Assignee: DEKA PRODUCTS LP

Assignee(s): (std): DEKA PRODUCTS LP

Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD ; PRIBYL ERIC L ; KERWIN JOHN M ; KAMEN DEAN ; GORAYEB MARC J ; BIASI JOHN J ; BLUMBERG DAVID

Inventor(s): (std): PRIBYL ERIC L ; MARC J GORAYEB ; KERWIN JOHN M ; KAMEN DEAN ; JOHN M KERWIN ; JOHN J BIASI ; GORAYEB MARC J ; ERIC L PRIBYL ; DEAN KAMEN ; DAVID BLUMBERG ; BLUMBERG JR DAVID ; BLUMBERG DAVID JR ; BLUMBERG DAVID ; BIASI JOHN J

Agent(s): GRIFFITH HACK ; GOWLING LAFLEUR HENDERSON LLP ; GOWLING WLG CANADA LLP ; CHAPMAN PATRICK ; HASELTINE LAKE LLP ; YAMASAKI YUKUZO ; AKAMATSU TOSHIKI ; WYNINEGAR JAMES D JR

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

112) Family number: 61746373 (WO06089307A2)

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Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/00 A47L11/03 A47L11/24 A47L11/29 A47L11/30 A47L11/34 A47L11/40 A47L7/00 A47L9/00 A47L9/02 A47L9/16 A47L9/28 B2513/08 B25J9/16 G06F19/00 (Advanced/Invention); A47L11/34 A47L9/16 A47L9/28 (Advanced/Non-invention); A47L11/00 A47L11/29 A47L7/00 A47L9/00 A47L9/10 A47L9/28 (Core/Invention) **CPC:** A47L5/14 A47L7/0028 A47L7/0038 A47L7/0042 A47L9/009 A47L11/4016 A47L11/4083 A47L2201/00 A47L2201/04 B60B33/001 B60B33/0021 B60B33/0028 B60B33/0039 B60B33/0049 B60B33/0057 B60B33/0068 B60B33/0073 B60B33/028 C11D1/62 C11D1/75 F04D29/4233 G05D1/0219 G05D1/0227 G05D1/0272 G05D2201/0203 Y10S901/01 Y10S901/40 A47L11/4011 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4066 A47L11/4069 A47L11/4088 A47L2201/022 A47L11/302 A47L11/40 A47L9/10 A47L9/28 A47L9/2826 A47L9/2852 A47L9/2857 A47L9/2873 A47L9/2884 A47L11/4005 A47L11/4027 B60R19/483 G05D1/0225



Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

113) Family number: 61746374 (EP2145573A1)

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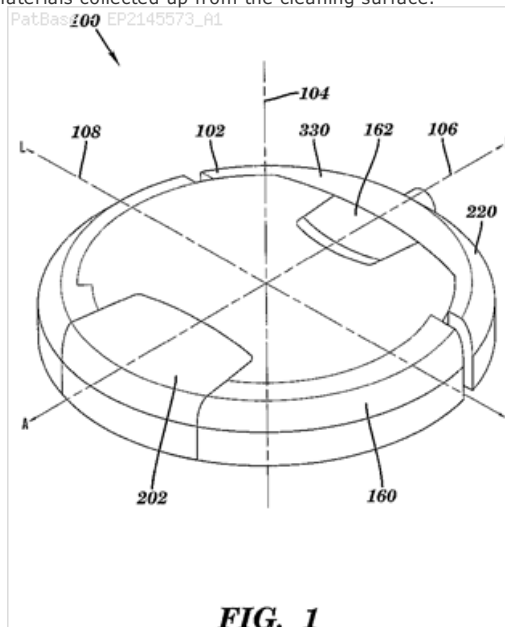
Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

Abstract: An autonomous floor cleaning robot (100) includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone (A) comprising cleaning elements (600) arranged to suction loose particulates up from the cleaning surface and a second cleaning zone (B) comprising cleaning elements (700) arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis (200) carries a supply of cleaning fluid and a waste container (D) for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/00 A47L11/40 A47L9/00 A47L9/28 B60C1/00 (Advanced/Invention)

CPC: A47L5/14 A47L7/0028 A47L7/0038 A47L7/0042 A47L9/009 A47L11/40 A47L11/4016 A47L11/4083 A47L2201/00 A47L2201/04 B60B33/001 B60B33/0021 B60B33/0028 B60B33/0039 B60B33/0049 B60B33/0057 B60B33/0068 B60B33/0073 B60B33/028 C11D1/62 C11D1/75 F04D29/4233 G05D1/0219 G05D1/0227 G05D1/0272 G05D2201/0203 Y10S901/01 Y10S901/40 A47L11/302 A47L9/28 A47L11/4011 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4066 A47L11/4069 A47L11/4088 A47L2201/022 A47L9/10 A47L9/2826 A47L9/2852 A47L9/2857 A47L9/2873 A47L9/2884 A47L11/4005 A47L11/4027 B60R19/483 G05D1/0225



Family:

Publication number	Publication date	Application number	Application date
EP2145573 A1	20100120	EP20090175474	20060221
EP2145573 B1	20110907	EP20090175474	20060221
EP2149324 A1	20100203	EP20090175479	20060221
EP2149324 B1	20110907	EP20090175479	20060221

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207574	20050819	US20050207575	20050819
US20050207620	20050819	EP20060721029	20060221		

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP

Inventor(s): (std): DUSSAULT NANCY ; GILBERT DUANE ; JONES ANDREW ; KONANDREAS STEPHANOS ; MORESE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL ; ZIEGLER ANDREW

Agent(s): SCHLEY JAN MALTE

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

114) Family number: 61746375 (EP2279686A2)

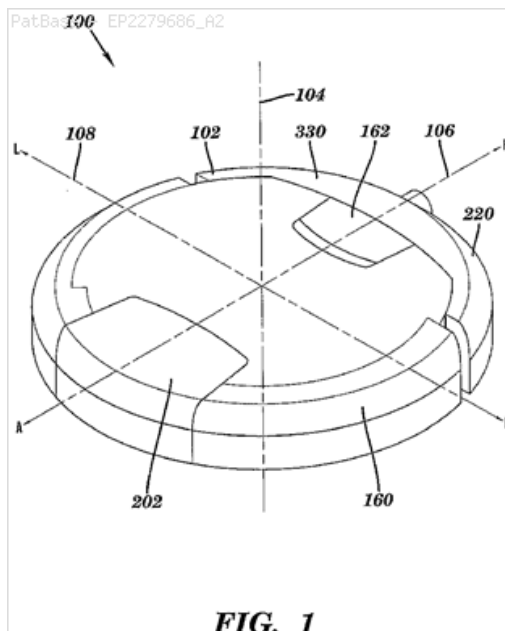
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Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

Abstract: An autonomous floor cleaning robot (100) includes a transport drive and control system (900) arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis (200) carries a first cleaning zone (A) comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone (B) comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid (S) and a waste container (D) for storing waste materials collected up from the cleaning surface. The powered wet cleaning head (700) has a width which is a function of the total robot mass.

Classifications:

International (IPC 8-9): A47L11/00 A47L11/40 A47L7/00 A47L9/00 A47L9/28 B60B33/00 F04D29/42 G05D1/02 (Advanced/Invention)
CPC: A47L5/14 A47L7/0028 A47L7/0038 A47L7/0042 A47L9/009 A47L11/40 A47L11/4016 A47L11/4083 A47L2201/00 A47L2201/04 B60B33/001 B60B33/0021 B60B33/0028 B60B33/0039 B60B33/0049 B60B33/0057 B60B33/0068 B60B33/0073 B60B33/028 C11D1/62 C11D1/75 F04D29/4233 G05D1/0219 G05D1/0227 G05D1/0272 G05D2201/0203 Y10S901/01 Y10S901/40 A47L11/302 A47L9/28 A47L11/4011 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4066 A47L11/4069 A47L11/4088 A47L2201/022 A47L9/10 A47L9/2826



Family:

Publication number	Publication date	Application number	Application date
DK2289384 T3	20130930	DK20060183086T	20060221
EP2279686 A2	20110202	EP20100183153	20060221
EP2279686 A3	20110511	EP20100183153	20060221
EP2279686 B1	20121114	EP20100183153	20060221
EP2289384 A2	20110302	EP20100183086	20060221
EP2289384 A3	20110511	EP20100183086	20060221
EP2289384 B1	20130703	EP20100183086	20060221
EP2298149 A2	20110323	EP20100183099	20060221
EP2298149 A3	20110511	EP20100183099	20060221
EP2298149 B1	20121003	EP20100183099	20060221
ES2399595 T3	20130402	ES20100183153T	20060221
ES2429138 T3	20131113	ES20100183086T	20060221

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207574	20050819	US20050207575	20050819
US20050207620	20050819	EP20060721029	20060221	EP20090175474	20060221

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP

Inventor(s): (std): DUSSAULT NANCY ; GILBERT DUANE ; JOHNES ANDREW ; JONES ANDREW ; KONANDREAS STEPHANOS ; MORESE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL ; ZIEGLER ANDREW

Agent(s): SCHLEY JAN MALTE; ARIAS JUAN

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

115) Family number: 61746377 (AU2012200415A)

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Title: "Autonomous surface cleaning robot for wet and dry cleaning"

Abstract: An autonomous floor cleaning robot (100) includes a transport drive and control system (300, 900) arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis (102) carries a first cleaning zone (A) comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone (B) comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container (D) for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/00 A47L11/40 (Advanced/Invention)

2012200415 24 Jan 2012

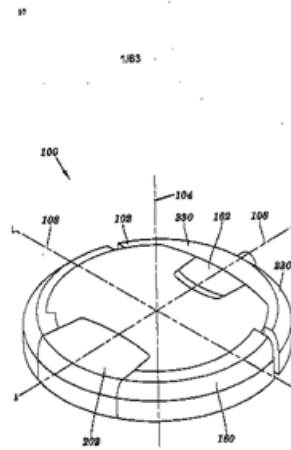


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AU2012200415 AA	20120216	AU20120200415	20120124
AU2012200415 BB	20120802	AU20120200415	20120124

Priority:

US20050654838P 20050218	US20050134213 20050521	US20050134212 20050521
US20050133796 20050521	US20050207574 20050819	US20050207620 20050819
US20050207575 20050819	AU20060214016 20060221	AU20120200415 20120124

Probable Assignee: IROBOT CORP**Assignee(s):** (std): IROBOT CORP**Inventor(s):** (std): DUSSAULT NANCY ; GILBERT DUANE ; JONES ANDREW ; KONANDREAS STEPHANOS ; MORESE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL ; ZIEGLER ANDREW**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD**116) Family number: 61746378 (AU2012205131A)**

© PatBase

Title: Autonomous surface cleaning robot for wet and dry cleaning

Abstract: CANRP0rtbI\DCC\JL\4110175_1.00C-1/23/2012 An autonomous floor cleaning robot (100) includes a transport drive and control system (300,900) arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis (102) carries a first cleaning zone (A) comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone (B) comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container (D) for storing waste materials collected up from the cleaning surface.

Classifications:**International (IPC 8-9):** A47L11/00 A47L11/40 (Advanced/Invention)

2012205131 13 Jul 2012

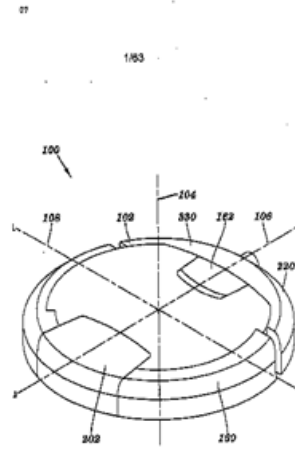


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AU2012205131 AA	20120802	AU20120205131	20120713
AU2012205131 BB	20140605	AU20120205131	20120713

Priority:

US20050654838P 20050218	US20050134213 20050521	US20050134212 20050521
US20050133796 20050521	US20050207574 20050819	US20050207575 20050819
US20050207620 20050819	AU20120200415 20120124	AU20120205131 20120713

Probable Assignee: IROBOT CORP**Assignee(s):** (std): IROBOT CORP**Inventor(s):** (std): DUSSAULT NANCY ; GILBERT DUANE ; MORESE CHRISTOPHER JOHN ; PRATT SCOTT ; JONES ANDREW ; KONANDREAS STEPHANOS ; ZIEGLER ANDREW ; SANDIN PAUL**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD**117) Family number: 61746379** (AU2014221266A)

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Title: Autonomous surface cleaning robot for wet and dry cleaning

Abstract: C:\N RPortbi\CCC\ 1\1017 5_0DCJ23/O1I An autonomous floor cleaning robot (100) includes a transport drive and control system (300,900) arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis (102) carries a first cleaning zone (A) comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone (B) comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container (D) for storing waste materials collected up from the cleaning surface.

Classifications:**International (IPC 8-9):** A47L11/00 A47L11/40 (Advanced/Invention)

2014221266 05 Sep 2014

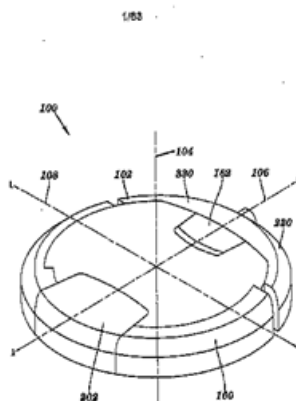


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AU2014202658 AA	20140605	AU20140202658	20140515
AU2014202658 BB	20160526	AU20140202658	20140515
AU2014221266 AA	20140925	AU20140221266	20140905

Priority:

US20050654838P	20050218	US20050134213	20050521	US20050134212	20050521
US20050133796	20050521	US20050207574	20050819	US20050207620	20050819
US20050207575	20050819	AU20120205131	20120713	AU20140202658	20140515
AU20140221266	20140905				

Probable Assignee: IROBOT CORP**Assignee(s):** (std): IROBOT CORP**Inventor(s):** (std): DUSSAULT NANCY ; GILBERT DUANE ; MORESE CHRISTOPHER JOHN ; PRATT SCOTT ; JONES ANDREW ; KONANDREAS STEPHANOS ; ZIEGLER ANDREW ; SANDIN PAUL**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD**118) Family number: 42826381** (US2010186851A)

© PatBase

Title: DEVICE FOR DISPENSING A LIQUID

Abstract: The invention concerns a base station (5) for a liquid dispensing apparatus, comprising drive means (93), means for supporting a container (4) having a dispensing device (3) which comprises a liquid duct (69) leading from the container (4) to an outlet (85) and means (6) for effecting passage of liquid through the duct (69), and coupling means (521) connected to drive means (93) and detachably connectable to the dispensing device (3) to actuate the means (6) for effecting passage of liquid through duct (69), characterized in that the means for supporting container (4) and dispensing device (3) comprise a holder (551), and in that the coupling means (521) are movable towards holder (551) to connect to dispensing device (3) and away from holder (551) after disconnecting from dispensing device (3).

Classifications:**International (IPC 8-9):** B65B1/04 B67B1/00 B67D B67D1/00

B67D1/04 B67D1/12 (Advanced/Invention);

B65B1/04 B67D1/00 B67D1/08 (Core/Invention);

B67D (Subclass/Invention)

International (IPC 1-7): B67D1/00 B67D1/08**CPC:** B67D1/0004 B67D1/0007 B67D1/0031 B67D1/0078

B67D1/0079 B67D1/0889 B67D1/10 B67D2001/0817

European: B67D1/00E2 B67D1/00E2B4 B67D1/00F4B4C2B

B67D1/00H6 B67D1/00H6B B67D1/08K B67D1/10 L67D1/08A32B4

US: 141/346 141/383 222/153.06 222/165 222/185.1 222/325

222/333 222/404 239/271 239/309 239/315 239/316 239/318 99/295

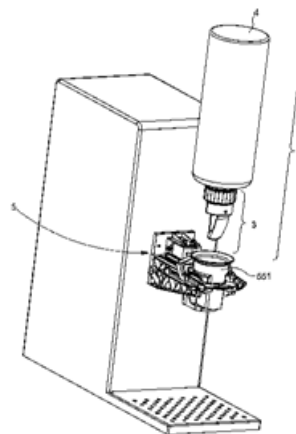


Fig. 1A

Family:

Publication number	Publication date	Application number	Application date
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AU2008277621 AA	20090122	AU20080277621	20080716
AU2008277621 BB	20111215	AU20080277621	20080716
BRPI0814435 A2	20150106	BR2008PI14435	20080716
BRPI0814435 B1	20180918	BR2008PI14435	20080716
CN101790488 A	20100728	CN200880107412	20080716
CN101790488 B	20130313	CN200880107412	20080716
DE602007008873 D1	20101014	DE200760008873T	20070719
EP2017219 A1	20090121	EP20070014190	20070719
EP2017219 B1	20100901	EP20070014190	20070719
ES2348931 T3	20101217	ES20070014190T	20070719
HK1144804 A1	20131206	HK20100111481	20101209
HK1144804 A1	20110311	HK20100111481	20101209
HK1144804 B	20131206	HK20100111481	20101209
IN00392DN2010 A	20100730	IN2010DN00392	20100119
JP2010533626 T2	20101028	JP20100516496T	20080716
JP5339634 B2	20131113	JP20100516496T	20080716
TH98624 A	20091012	TH20081003748	20080716
TW200920682 A	20090516	TW20080127529	20080718
US2010186851 AA	20100729	US20080669742	20080716
US8544692 BB	20131001	US20080669742	20080716
WO09010523 A2	20090122	WO2008EP59271	20080716
WO09010523 A3	20090226	WO2008EP59271	20080716

Priority:

EP20070014190 20070719 WO2008EP59271 20080716

Probable Assignee: SMIXIN SA

Assignee(s): (std): BHALERAO AMOL ASHOK ; BITMEAD NAOMI ; COOPER GARY ; GUILLEMAIN BERNARD ; HERRICK JAMES PETER ; KLOPFENSTEIN ANDRE ; NESTEC LTD ; NESTEC SA ; MORRISON RANDALL L ; MOCK ELMAR ; RUSCH CHRISTOPH ; SMIXIN S A ; KLOPFENSTEINH ANDRE

Assignee(s): SMIXIN SA ; NESTEC S A

Inventor(s): (std): RUSCH CHRISTOPHE ; HERRICK JAMES PETER ; KLOPFENSTEIN ANDRE ; MORRISON RANDALL L ; BHALERAO AMOL ASHOK ; COOPER GARY ; MOCK ELMAR ; BITMEAD NAOMI ; GUILLEMAIN BERNARD ; RUSCH CHRISTOPH ; CHRISTOPH RUSCH ; MORRISON RANDALL L ; ELMAR MOCK ; ANDRE KLOPFENSTEIN ; NAOMI BITMEAD ; PETER HERRICK JAMES ; BERNARD GUILLEMAIN ; GARY COOPER ; CHRISTOPHE RUSCH ; ASHOK BHALERAO AMOL ; KLOPFENSTEINH ANDRE ; RANDALL L MORRISON ; AMOL ASHOK BHALERAO ; JAMES PETER HERRICK

Inventor(s): BHALERAO AMOL ; MORRISON RANDALL ; HERRICK JAMES ; RANDAL L MORRISON

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; RAVENEL THIERRY GERARD LOUIS ET AL; RAVENEL THIERRY GERARD LOUIS; ZHONGZI IP; K AND L GATES LLP; DUCREUX MARIE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

119) Family number: 57085383 (US2014209638A)

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Title: SEQUENCED ADJUSTABLE VOLUME PUMPS, REFILL UNITS AND DISPENSERS**Abstract:** Embodiments of sequenced foam pumps, refill units and dispensers are disclosed herein. One exemplary refill unit

includes a container for holding a foamable liquid and a sequenced pump. The sequenced pump has a housing with a chamber located within the housing. There is an air inlet and a liquid inlet into the chamber. A hollow valve stem is movable within the chamber. A sealing member forms a seal between the valve stem and the chamber. When the valve stem is in a first position liquid flows into the chamber and air in the chamber flows into the container; and when the valve stem is in a second position, the sealing member seals off the liquid inlet, and air travels through the air inlet and mixes with the liquid in the chamber. The air and liquid mixture travels through the center of the valve stem and out of an outlet.

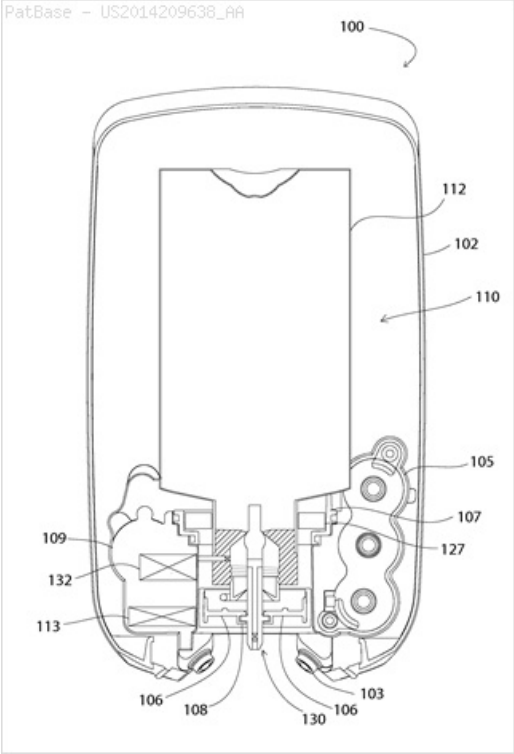
Classifications:

International (IPC 8-9): A47K5/12 A47K5/16

B67D7/76 (Advanced/Invention)

CPC: A47K5/12 A47K5/16

US: 1/1 222/190



Family:

Publication number	Publication date	Application number	Application date
US2014209638 AA	20140731	US20130750640	20130125
US9254068 BB	20160209	US20130750640	20130125

Priority:

US20130750640 20130125

Probable Assignee: GOJO IND INC

Assignee(s): (std): CIAVARELLA NICK E ; FAWCETT JONATHAN E ; GOJO IND INC

Assignee(s): PNC BANK NATIONAL ASSOCIATION AGENT AS

Inventor(s): (std): CIAVARELLA NICK E ; FAWCETT JONATHAN E

Agent(s): CALFEE HALTER AND GRISWOLD LLP

120) Family number: 49126383 (US2011153871A) © PatBase

Title: SUBSTANCE COMMUNICATING DEVICE WITH ACTIVATABLE CONNECTOR AND CYCLE STRUCTURE

Abstract: A substance communicating device for use in conjunction with an appliance or a system including an appliance and a substance communicating device. The substance communicating device has a service connector component operably engageable with a service connector component of the appliance to permit the communication of a substance between the appliance and the substance communicating device. Information related to the substance can be communicated to the appliance and used to affect the physical cycle of operation of the appliance.

Classifications:

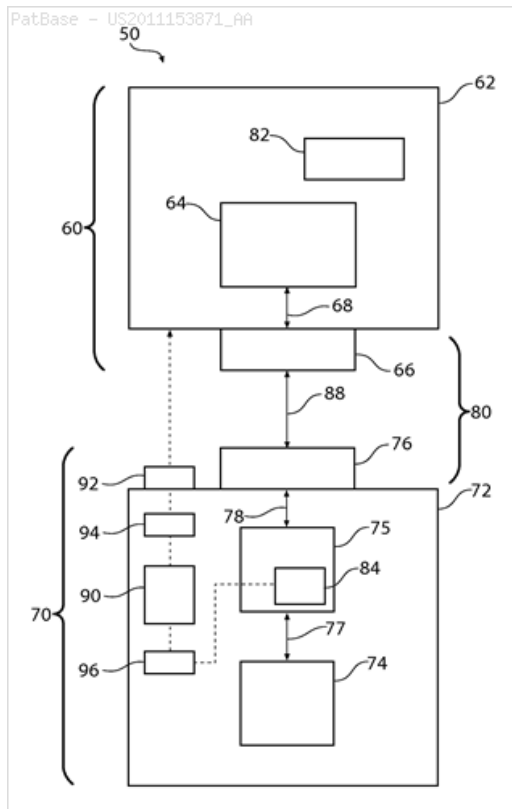
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G06F3/00 (Advanced/Invention)

CPC: F24C7/082 A47L15/006 A47L2401/026 A47L2401/04

A47L2501/07 D06F58/28 D06F33/02 D06F2204/02 D06F2210/00

US: 251/149 710/316 710/316S 710/8 710/8P

**Family:**

Publication number	Publication date	Application number	Application date
US2011153871 AA	20110623	US20090643128	20091221
US8700809 BB	20140415	US20090643128	20091221

Priority:

US20090643128 20091221

Probable Assignee: WHIRLPOOL CORP**Assignee(s):** (std): FERRAGUT II NELSON J ; LUCKMAN JOEL A ; MCCOY RICHARD A ; PIRES ANDRE O ; WHIRLPOOL CO**Assignee(s):** WHIRLPOOL CORP**Inventor(s):** (std): MCCOY RICHARD A ; FERRAGUT II NELSON J ; PIRES ANDRE O ; LUCKMAN JOEL A**121) Family number: 34384384 (US2007116649A)**

© PatBase

Title: ANTIBIOTIC FORMULATIONS, UNIT DOSES, KITS, AND METHODS

Abstract: An aqueous or powder composition includes anti-gram-negative antibiotic or salt thereof being present at an amount ranging from about 100 mg/ml to about 200 mg/ml. Another aqueous or powder composition includes anti-gram-positive antibiotic or salt thereof being present at a concentration ranging from about 0.6 to about 0.9 of the water solubility limit, at 25 degrees centigrade and 1.0 atmosphere, of the anti-gram-positive antibiotic or salt thereof. Other embodiments include unit doses, kits, and methods.

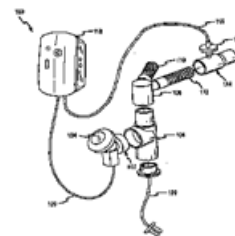
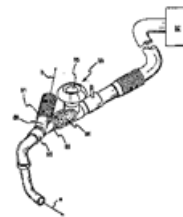
Classifications:

International (IPC 8-9): A01N37/18 A61J1/06 A61J1/14 A61K A61K31/00 A61K31/137 A61K31/573 A61K31/7034 A61K31/7036 A61K31/7048 A61K38/00 A61K38/04 A61K38/14 A61K45/00 A61K9/00 A61K9/08 A61K9/12 A61K9/19 A61M11/00 A61M15/00 A61M16/04 A61M16/14 A61M31/00 A61P11/00 A61P11/08 A61P29/00 A61P31/00 A61P31/04 A61P43/00 C07G11/00 C07H15/236 C07K9/00 (Advanced/Invention); A61K31/7036 A61K9/08 A61K9/19 (Advanced/Non-invention); A61K31/00 A61K31/137 A61K31/57 A61K31/7028 A61K31/7042 A61K38/00 A61K45/00 A61K9/00 A61K9/08 A61K9/12 A61M11/00 A61P11/00 A61P29/00 A61P31/00 A61P43/00 C07G11/00 (Core/Invention)
CPC: A61K9/19 A61K31/573 A61K31/7034 A61K9/0019 A61M11/001 A61M16/04 A61J1/065 A61J1/1412 A61M2202/064 A61K9/0078 A61K31/7036 A61K9/08

European: A61K31/573 A61K31/7034 A61K31/7036 A61K9/00M20B5 K61K9/08 K61K9/19

US: 1/1 128/200.14 128/200.140P 128/200.140S 128/203.12 206/540 424/45 424/45P 514/171 514/171S 514/3.1 514/3.100P 514/35 514/35S 514/36 514/36S 514/37 514/37S 514/38 514/38S 514/39 514/39S 514/40 514/40S 530/322 530/322S 536/13.6 536/13.600S 536/16.8 536/16.800S 604/403 604/403S

Patent Application Publication May 24, 2007 Sheet 1 of 9 1/5 2007/0116649 A1

**Fig. 1A****Fig 1B**

Family:

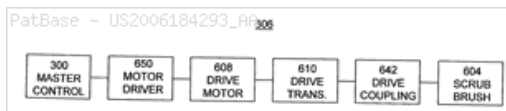
Publication number	Publication date	Application number	Application date
AU2006297289 AA	20070412	AU20060297289	20060928
AU2006297289 BB	20130321	AU20060297289	20060928
AU2013206401 AA	20130718	AU20130206401	20130618
AU2013206401 BB	20160623	AU20130206401	20130618
BRPI0616642 A2	20110628	BR2006PI16642	20060928
CA2622193 AA	20080311	CA20062622193	20060928
CN101287446 A	20081015	CN200680036148	20060928
CN104586868 A	20150506	CN201410512935	20060928
EP1928410 A2	20080611	EP20060815563	20060928
HK1113090 A1	20080926	HK20080108231	20080724
HK1113090 A3	20080926	HK20080108231	20080724
HK1122987 A1	20090605	HK20090100136	20090107
HK1122987 A3	20090605	HK20090100136	20090107
JP2009510077 T2	20090312	JP20080533562T	20060928
KR101424518 B1	20140806	KR20087007893	20060928
KR20080049808 A	20080604	KR20087007893	20060928
MX348936 B	20170703	MX20130004748	20060928
US2007116649 AA	20070524	US20060529128	20060928
US2009288658 AA	20091126	US20080341780	20081222
US2010286031 AA	20101111	US20060992347	20060928
US2012225835 AA	20120906	US20120471126	20120514
US2012247462 AA	20121004	US20120494815	20120612
US2016317562 AA	20161103	US20160143009	20160429
US9205050 BB	20151208	US20060992347	20060928
US9351929 BB	20160531	US20120471126	20120514
US9351930 BB	20160531	US20120494815	20120612
US9895386 BB	20180220	US20160143009	20160429
WO07041156 A2	20070412	WO2006US37651	20060928
WO07041156 A3	20080306	WO2006US37651	20060928

Priority:

US20050722564P	20050929	AU20060297289	20060928	US20060529128	20060928
US20060529128	20060928	CN200680036148	20060928	WO2006US37651	20060928
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US20120494815	20120612	AU20130206401	20130618	US20160143009	20160429

Probable Assignee: NEKTAR THERAPEUTICS**Assignee(s):** (std): BAYER IP GMBH ; CHARAN CHATAN ; CHARAN CHATAN K ; NEKTAR THERAPEUTICS ; SARVAJNA DWIVEDI ; DWIVEDI SARVAJNA ; NOVARTIS AG ; BAYER HEALTHCARE AG**Assignee(s):** BAYER INTELLECTUAL PROPERTY GMBH ; NEKTAR THERAPEUTICS201 INDUSTRIAL ROADSAN CARLOSCA94070US ; NOVARTIS AGLICHTSTRASSE 35CH-4056BASELCH ; NOVARTIS PHARMA AGLICHTSTRASSE 35CH-4056BASELCH ; NOVARTIS PHARMA AG**Inventor(s):** (std): SARVAJNA DWIVEDI ; DWIVEDI SARVAJNA ; CHARAN CHATAN K ; CHARAN CHATAN ; IVEDI SARVAJNA ; CHATAN CHARAN**Inventor(s):** CHARAN CHATAN KUS ; CHATAN K CHARAN ; DWIVEDI SARVAJNAUS**Agent(s):** GRIFFITH HACK ; GOWLING LAFLEUR HENDERSON LLP ; COLTON INTELLECTUAL PROPERTY INC ; BALDOCK SHARON CLAIRE ; WILKINSON AND GRIST ; CLT PATENT AND TRADEMARK HK LTD ; NEKTAR THERAPEUTICS ; NOVARTIS,CORPORATE INTELLECTUAL PROPERTY ; NOVARTIS CORPORATE INTELLECTUAL PROPERTY ; ROPES AND GRAY LLP ; WHITE AND CASE LLP**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**122) Family number: 61746384 (US2006184293A)**

© PatBase

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET CLEANING**Abstract:** An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries cleaning elements arranged to spray a liquid cleaning fluid onto the cleaning surface across a cleaning width. The cleaning fluid mixes with contaminated on the floor, which become emulsified or otherwise mixed with the cleaning fluid. The robot further include cleaning elements configured to suction up waste materials and particularly the liquid waste material generated by the mixing of the cleaning fluid and contaminants.**Classifications:****International (IPC 8-9):** G06F19/00 (Advanced/Invention)**US:** 700/245 701/23**Family:**

Publication number	Publication date	Application number	Application date
US2006184293 AA	20060817	US20050134213	20050521

Priority:

US20050654839P	20050217	US20050654838P	20050218	US20050134213	20050521
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Probable Assignee: IROBOT CORP**Assignee(s):** (std): KONANDREAS STEPHANOS ; MORSE CHRISTOPHER J ; ZIEGLER ANDREW

Assignee(s): IROBOT CORP
Inventor(s): (std): ZIEGLER ANDREW ; MORSE CHRISTOPHER J ; KONANDREAS STEPHANOS
Inventor(s): MORSE CHRISTOPHER
Agent(s): GOODWIN PROCTER LLP, PATENT ADMINISTRATOR; GOODWIN PROCTER LLP PATENT ADMINISTRATOR

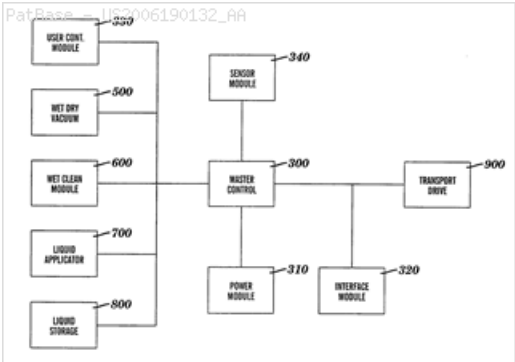
123) Family number: 61746385 (US2006190132A)

© PatBase

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR DRY CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries cleaning elements arranged to suction loose particulates up from the cleaning surface. The cleaning elements include a jet port disposed on a transverse edge of the robot and configured to blow a jet of air across a cleaning width of the robot towards the opposite transverse edge and a vacuum intake port is disposed on the robot opposed to the jet port to suction up loose particulates blown across the cleaning width by the jet port.

Classifications:
International (IPC 8-9): G06F19/00 (Advanced/Invention)
US: 700/245



Family:

Publication number	Publication date	Application number	Application date
US2006190132 AA	20060824	US20050133796	20050521

Priority:
US20050654838P 20050218 US20050133796 20050521

Probable Assignee: IROBOT CORP
Assignee(s): GILBERT DUANE JR ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW
Assignee(s): IROBOT CORP
Inventor(s): (std): GILBERT DUANE JR ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW
Inventor(s): GILBERT DUANE
Agent(s): GOODWIN PROCTER LLP, PATENT ADMINISTRATOR; GOODWIN PROCTER LLP PATENT ADMINISTRATOR

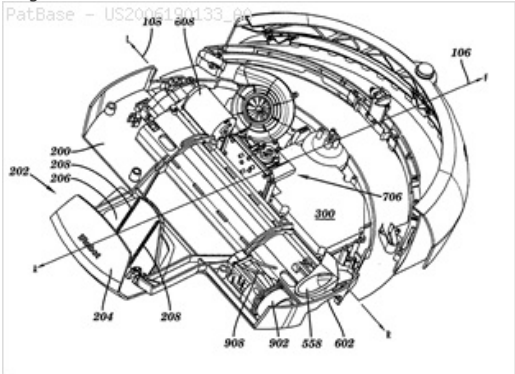
124) Family number: 61746386 (US2006190133A)

© PatBase

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:
International (IPC 8-9): G06F19/00 (Advanced/Invention)
US: 318/568.1 318/568.12 318/580 318/581 318/587 700/245 700/246 700/249 700/250 700/256 700/259 701/23 701/24 701/25 701/26 701/300 901/1 901/46 901/47



Family:

Publication number	Publication date	Application number	Application date
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US8392021 BB	20130305	US20050207575	20050819

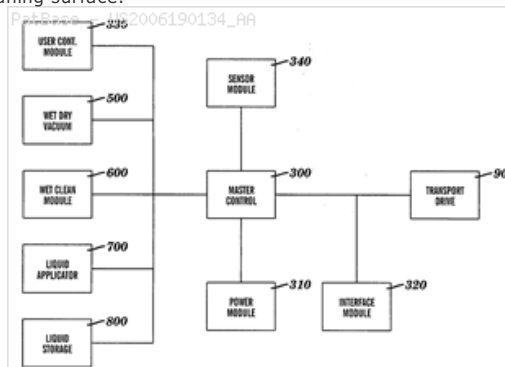
Priority:
US20050654838P 20050218 US20050133796 20050521 US20050134212 20050521

Probable Assignee: IROBOT CORP**Assignee(s):** (std): IROBOT CORP ; KONANDREAS STEFANOS ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW**Inventor(s):** (std): KONANDREAS STEFANOS ; KONANDREAS STEPHANOS ; MORSE CHRISTOPHER J ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW**Inventor(s):** MORSE CHRISTOPHER**Agent(s):** GOODWIN PROCTER LLP PATENT ADMINISTRATOR; FISH AND RICHARDSON P C; FISH AND RICHARDSON PC**125) Family number: 61746387** (US2006190134A)

© PatBase

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:**International (IPC 8-9):** G06F19/00 (Advanced/Invention); G06F19/00 (Core/Invention)**CPC:** A47L5/14 A22C17/0013 A47L7/0009 A47L7/0028 A47L7/0038 A47L7/0042 A47L11/302 A47L11/34 A47L11/4002 A47L11/4011 A47L11/4016 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4069 A47L11/4072 A47L11/4083 A47L11/4088 A47L2201/00**US:** 318/568.1 318/568.12 318/581 318/587 700/245 700/246 700/249 700/250 700/256 700/259 700/261 701/23 701/24 701/25 701/26 701/300 901/1 901/46 901/47**Family:**

Publication number	Publication date	Application number	Application date
US2006190134 AA	20060824	US20050207620	20050819
US7389156 BB	20080617	US20050207620	20050819

Priority:

US20050654838P 20050218 US20050133796 20050521 US20050134212 20050521
 US20050134213 20050521 US20050207620 20050819

Probable Assignee: IROBOT CORP**Assignee(s):** (std): IROBOT CORP**Inventor(s):** (std): DUSSAULT NANCY ; GILBERT DUANE ; JONES ANDREW ; MORSE CHRISTOPHER J ; MORSE CHRISTOPHER JOHN ; PRATT SCOT ; PRATT SCOTT ; SANDIN PAUL ; ZIEGLER ANDREW**Inventor(s):** MORSE CHRISTOPHER**Agent(s):** GOODWIN PROCTER LLP PATENT ADMINISTRATOR; GOODWIN PROCTER LLP**126) Family number: 32475388** (US2005268985A)

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Title: PRESERVATION AND DISPENSATION BY VOLUMETRIC DISPLACEMENT UTILIZING POTENTIAL ENERGY CONVERSION

Abstract: A volumetric displacement device, especially good for preserving and dispensing carbonated beverages has been constructed that is extremely light, small, safe, attractive, easy to use, energy efficient and inexpensive. It can use battery power, has an ovaloid shape, can be constructed of thin flexible plastics, and operates in various positions that eliminate the need for a pickup tube. A consistent problem with soda savers, in that they destroy carbonated beverages by delivering them in a violent manner, has been solved by utilizing a low pressure delivery mode. The can operate in a conventional refrigerator.

Classifications:**International (IPC 8-9):** B65B1/04 B65B1/08 B65B1/30 B65B3/16 B65D35/28 B65D83/00 B67C3/06 B67D1/04 B67D1/08 B67D1/12 (Advanced/Invention);

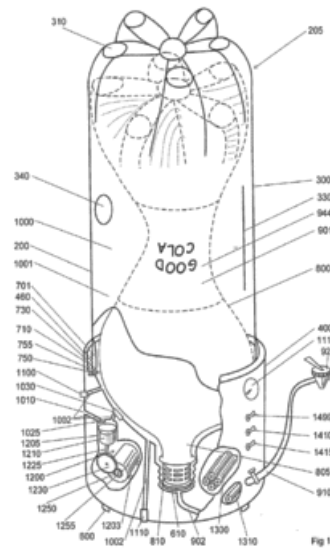
B67D1/00 (Advanced/Non-invention);

B65B1/04 B65B1/30 B65B3/04 B65D35/24 B65D83/00 B67C3/02 B67D1/00 (Core/Invention)

International (IPC 1-7): B65B1/08**CPC:** B67D1/0462 B67D1/0431 B67D1/0878 B67D1/0888 B67D1/12 B67D1/1243 B67D1/125 B67D1/1252 B67D2001/0098**European:** B67D1/04B4B B67D1/04E B67D1/08H B67D1/08J

B67D1/12 B67D1/12B6H B67D1/12C B67D1/12F B67D1/12G L67D1/00Y90C L67D1/12G

US: 1/1 141/114 141/114S 141/285 141/285S 141/4 141/67 141/95 141/95P 222/105 222/397 222/399 222/95



Inventor(s): (std): ZIEGLER ANDREW ; MORSE CHRISTOPHER JOHN ; MORSE CHRISTOPHER J ; JONES ANDREW ; GILBERT JR DUANE ; GILBERT DUANE JR

Inventor(s): GILBERT DUANE ; MORSE CHRISTOPHER

Agent(s): GOODWIN PROCTER LLP PATENT ADMINISTRATOR; FISH AND RICHARDSON PC

128) Family number: 61746389 (US2006200281A)

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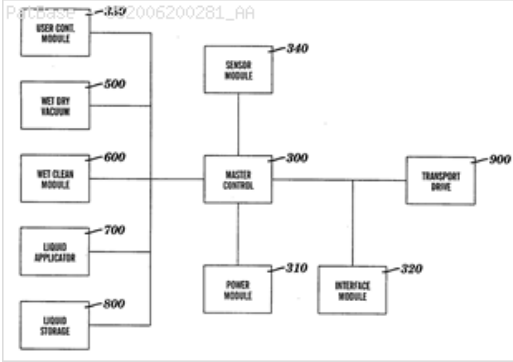
Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arraigned to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): G06F19/00 (Advanced/Invention)

US: 700/245 701/23



Family:

Publication number	Publication date	Application number	Application date
US2006200281 AA	20060907	US20050134212	20050521

Priority:

US20050654839P 20050217 US20050654838P 20050218 US20050134212 20050521

Probable Assignee: IROBOT CORP

Assignee(s): (std): JONES ANDREW ; PRATT SCOTT ; SANDIN PAUL ; MORSE CHRISTOPHER J ; ZIEGLER ANDREW ; DUSSAULT NANCY ; GILBERT DUANE

Assignee(s): IROBOT CORP

Inventor(s): (std): DUSSAULT NANCY ; GILBERT DUANE ; JONES ANDREW ; MORSE CHRISTOPHER J ; PRATT SCOTT ; SANDIN PAUL ; ZIEGLER ANDREW

Inventor(s): MORSE CHRISTOPHER

Agent(s): GOODWIN PROCTER LLP, PATENT ADMINISTRATOR; GOODWIN PROCTER LLP PATENT ADMINISTRATOR

129) Family number: 35011390 (US2007194054A)

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Title: FLUID PRODUCT DISPENSER

Abstract: A dispenser for dispensing a fluid product includes a liquid reservoir for storing a liquid product and a pump that is connected to the liquid reservoir. The pump may include a liquid chamber for containing a dose of the liquid product, a liquid outlet valve for regulating passage of liquid product from the liquid chamber to a dispensing head, compression means for applying a compressional force to liquid product in the liquid chamber, thus forcing liquid product from the liquid chamber through the liquid outlet valve and through the dispensing head. The dispenser may also include a liquid inlet device for administering admission of liquid product into the liquid chamber from the liquid reservoir. The liquid inlet device may include a body of solid material in which at least one constrictive passage is provided. The constrictive passage may be constantly open and serve to allow passage of liquid product back and forth between the liquid reservoir and the liquid chamber.

Classifications:

International (IPC 8-9): B05B11/00 B67D5/58

B67D7/76 (Advanced/Invention);

B05B11/00 B67D7/76 (Core/Invention)

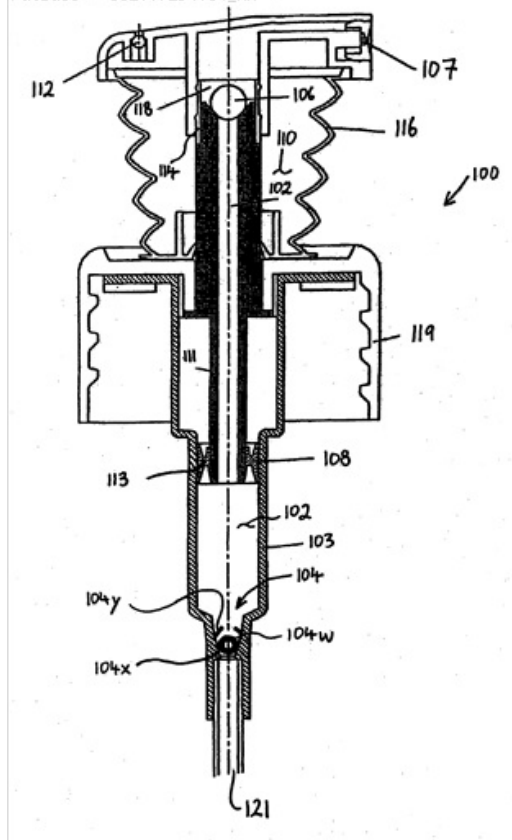
CPC: A47K5/1205 A47K5/1207 B05B7/0025 B05B11/3066

B05B11/3087 B05B11/3094

European: A47K5/12C1A A47K5/12C1B B05B11/00E B05B11/00P9R

B05B11/30H7 B05B11/30L B05B11/30R L05B7/00C1

US: 222/190

**Family:**

Publication number	Publication date	Application number	Application date
AT460993 E	20100415	AT20070100824T	20070119
DE602007005291 D1	20100429	DE200760005291T	20070119
EP1818109 A1	20070815	EP20070100824	20070119
EP1818109 B1	20100317	EP20070100824	20070119
US2007194054 AA	20070823	US20070657195	20070124

Priority:

EP20060075177 20060125 US20060762523P 20060127 EP20070100824 20070119
 US20070657195 20070124

Probable Assignee: TECHNICAL CONCEPTS BENTFIELD BV

Assignee(s): (std): GANZEBOOM WILHELMUS E ; KADIKS FEDOR C ; TECHNICAL CONCEPTS BENTFIELD B

Assignee(s): TECHNICAL CONCEPTS BENTFIELD B V ; TECHNICAL CONCEPTS BENTFIELD BV

Inventor(s): (std): GANZEBOOM WILHELMUS EVERHARDUS ; KADIKS FEDOR CHRISTIAAN ; KADIKS FEDOR C ; GANZEBOOM WILHELMUS E

Inventor(s): KADIKS FEDOR ; GANZEBOOM WILHELMUS

Agent(s): METMAN KAREL JOHANNES; TRASK BRITT

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

130) Family number: 61746390 (US2007016328A)

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Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

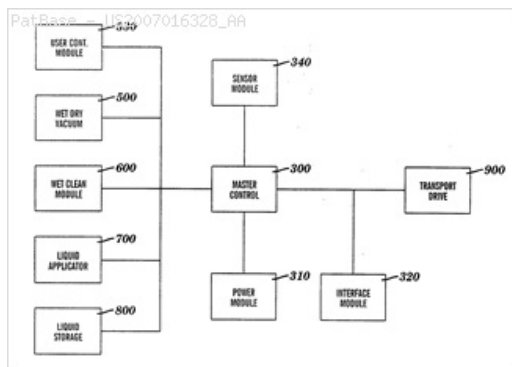
Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): G06F19/00 (Advanced/Invention); G06F19/00 (Core/Invention)

CPC: A47L5/14 A47L7/0028 A47L7/0038 A47L7/0042 A47L9/009 A47L11/40 A47L11/4016 A47L11/4083 A47L2201/00 A47L2201/04 B60B33/001 B60B33/0021 B60B33/0028 B60B33/0039 B60B33/0049 B60B33/0057 B60B33/0068 B60B33/0073 B60B33/028 C11D1/62 C11D1/75 F04D29/4233 G05D1/0219 G05D1/0227 G05D1/0272 G05D2201/0203 Y10S901/01 Y10S901/40 A47L11/302 A47L9/28 A47L11/4011 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4066 A47L11/4069 A47L11/4088 A47L2201/022 A47L9/10 A47L9/2826 A47L9/2852 A47L9/2857 A47L9/2873 A47L9/2884 A47L11/4005 A47L11/4027 B60R19/483 G05D1/0225

US: 123/350 123/478 123/492 318/609 318/798 318/806 700/245 700/266 700/28 700/29 700/31 700/37 701/23 701/28 701/41 701/70 703/16 703/18 703/2 703/23 706/23 706/25 706/903 706/906



Family:

Publication number	Publication date	Application number	Application date
US2007016328 AA	20070118	US20060359961	20060221
US8670866 BB	20140311	US20060359961	20060221

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207620	20050819	US20050207574	20050819
US20050207575	20050819	US20060359961	20060221		

Probable Assignee: IROBOT CORP

Assignee(s): (std): DUSSAULT NANCY ; GILBERT DUANE ; IROBOT CORP ; JONES ANDREW ; ZIEGLER ANDREW ; PRATT SCOTT ; SANDIN PAUL ; MORSE CHRISTOPHER J ; MORSE CHRISTOPHER JOHN

Inventor(s): (std): DUSSAULT NANCY ; GILBERT DUANE ; JONES ANDREW ; MORSE CHRISTOPHER J ; MORSE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL ; ZIEGLER ANDREW

Inventor(s): MORSE CHRISTOPHER

Agent(s): GOODWIN PROCTER LLP, PATENT ADMINISTRATOR; GOODWIN PROCTER LLP PATENT ADMINISTRATOR; FISH AND RICHARDSON PC

131) Family number: 61746391 (US2008127445A)

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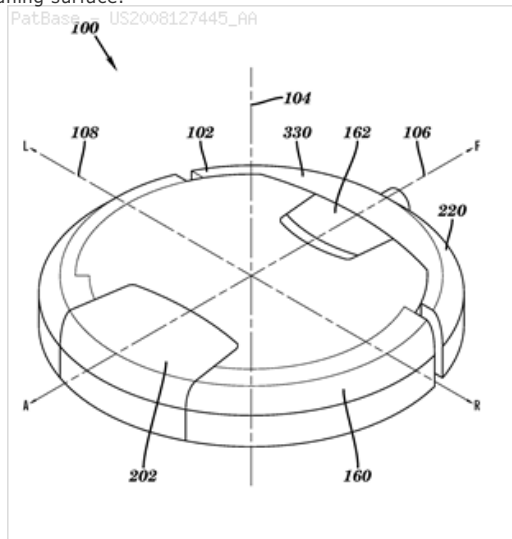
Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/29 A47L5/00 B08B1/00 B08B3/04 G06F19/00 (Advanced/Invention); A47L5/00 G06F19/00 (Core/Invention)

US: 134/21 134/6 15/319 15/50.1 15/50.2 15/50.3 15/98 700/245 901/1



Family:

Publication number	Publication date	Application number	Application date
US2008127445 AA	20080605	US20070835359	20070807
US8382906 BB	20130226	US20070835359	20070807

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207575	20050819	US20070835359	20070807

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP ; KONANDREAS STEFANOS ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW

Inventor(s): (std): KONANDREAS STEFANOS ; KONANDREAS STEPHANOS ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW

Agent(s): GOODWIN PROCTER LLP PATENT ADMINISTRATOR; FISH AND RICHARDSON PC

Title: AUTOMATIC FLUID DISPENSER

Abstract: The invention relates to an automatic dispenser for dispensing a fluid and for instructing a user, comprising a) a holder device for a replaceable fluid container, wherein the holder device has a sensor for reading an identification of the replaceable fluid container, b) a delivery device, which enables a dispensing of a fluid from the fluid container, c) one or more touchless proximity sensors for detecting a hand of a user, d) an output device for the time-controlled output of a plurality of visual and/or sound-based instructions of a sequence of instructions to the user, and e) a controller having at least one data memory, wherein in a first data memory sequences of instructions associated with multiple and different replaceable containers and/or the identifications thereof are stored.

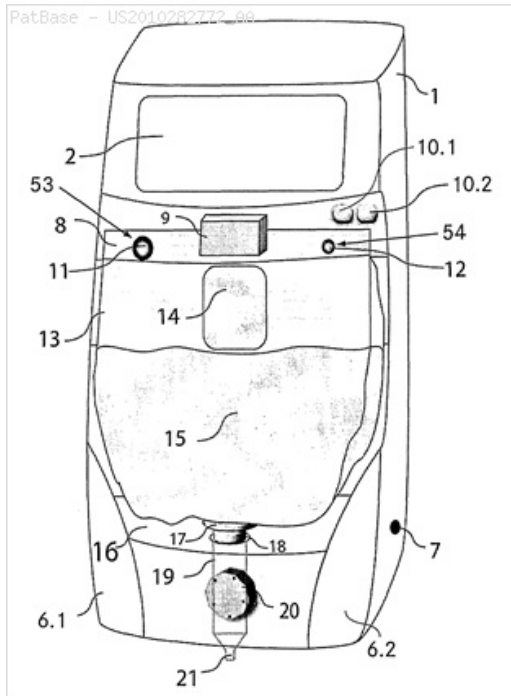
Classifications:

International (IPC 8-9): A47K5/12 B65D83/00 B67D1/00 B67D7/06 B67D7/14 B67D7/22 B67D7/56 G08B13/14 (Advanced/Invention); A47K5/00 (Core/Invention)

CPC: A47K5/1207 A47K5/1217

European: A47K5/12E

US: 222/1 222/1P 222/207 222/207S 222/214 222/214S 222/23 222/325 222/325S 222/39 222/52 222/52S 222/63 340/572.1

**Family:**

Publication number	Publication date	Application number	Application date
CN101861116 A	20101013	CN200880115136	20080902
CN101861116 B	20120718	CN200880115136	20080902
DE502007014574 D1	20160407	DE200750014574T	20070910
EP2033555 A1	20090311	EP20070405271	20070910
EP2033555 B1	20160224	EP20070405271	20070910
ES2567877 T3	20160426	ES20070405271T	20070910
JP2010538686 T2	20101216	JP20100523249T	20080902
JP5148705 B2	20130220	JP20100523249T	20080902
US2010282772 AA	20101111	US20080677041	20080902
US8453877 BB	20130604	US20080677041	20080902
WO09033301 A1	20090319	WO2008CH00363	20080902

Priority:

EP20070405271 20070910 WO2008CH00363 20080902

Probable Assignee: ORO CLEAN CHEMIE AG

Assignee(s): (std): IONIDIS GEORGIOS ; ORO CLEAN CHEMIE AG

Inventor(s): (std): IONIDIS GEORGIOS ; GEORGIOS IONIDIS

Agent(s): LENZING GERBER STUTE PARTNERSCHAFTSGESELLSCHAFT VON PATENTANWAELTEN M B B; ROSHARDT WERNER ALFRED ET AL; TEMINO IGNACIO; BIRCH STEWART KOLASCH AND BIRCH; BIRCH STEWART KOLASCH AND BIRCH LLP; ROSHARDT WERNER A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

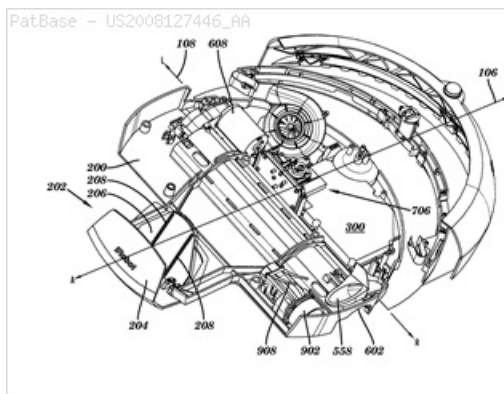
Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

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Classifications:

International (IPC 8-9): A47L5/00 A47L7/00 (Advanced/Invention); A47L5/00 A47L7/00 (Core/Invention)

CPC: A47L5/14 A22C17/0013 A47L7/0009 A47L7/0028 A47L7/0038
A47L7/0042 A47L11/302 A47L11/34 A47L11/4002 A47L11/4011
A47L11/4016 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4069
A47L11/4072 A47L11/4083 A47L11/4088 A47L2201/00
US: 15/320 15/340.3 15/349 15/353 15/4



Family:

Publication number	Publication date	Application number	Application date
US2008127446 AA	20080605	US20070835355	20070807

Priority:

US20050654838P 20050218	US20050133796 20050521	US20050134212 20050521
US20050134213 20050521	US20050207620 20050819	US20070835355 20070807

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP

Inventor(s): (std): DUSSAULT NANCY ; GILBERT DUANE ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL ; ZIEGLER ANDREW

Agent(s): GOODWIN PROCTER LLP PATENT ADMINISTRATOR

134) Family number: 61746393 (US2008134457A)

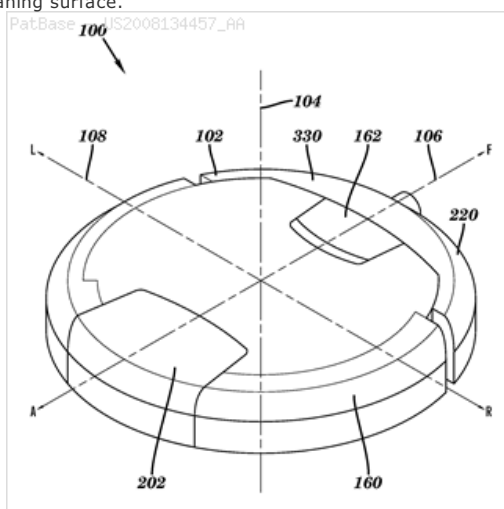
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Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR DRY CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L5/00 D06F43/00
G06F19/00 (Advanced/Invention);
D06F43/00 G06F19/00 (Core/Invention)
US: 15/319 15/340.1 15/346



Family:

Publication number	Publication date	Application number	Application date
US2008134457 AA	20080612	US20070835356	20070807
US8266760 BB	20120918	US20070835356	20070807
US8739355 BB	20140603	US20070835356	20070807

Priority:

US20050654838P 20050218	US20050133796 20050521	US20050134212 20050521
US20050134213 20050521	US20050207574 20050819	US20070835356 20070807

Probable Assignee: IROBOT CORP

Assignee(s): (std): GILBERT DUANE ; IROBOT CORP ; JONES ANDREW ; MORSE CHRISTOPHER J ; ZIEGLER ANDREW

Inventor(s): (std): GILBERT DUANE ; JONES ANDREW ; MORSE CHRISTOPHER J ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW

Agent(s): GOODWIN PROCTER LLP PATENT ADMINISTRATOR; FISH AND RICHARDSON PC

135) Family number: 61746394 (US2008134458A)

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Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

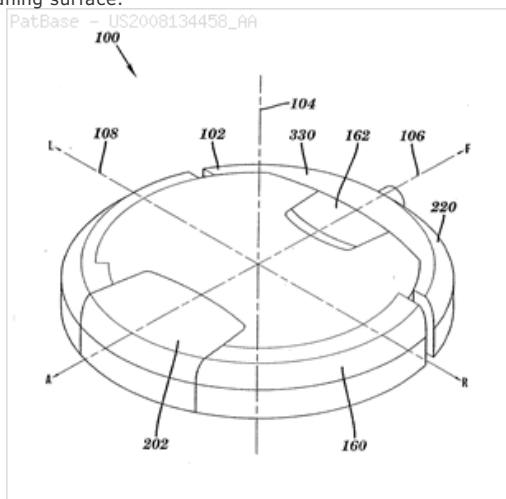
Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/00 A47L11/28 A47L11/30 A47L5/00 A47L7/00 A47L7/02 A47L9/00 E01H1/08 (Advanced/Invention); A47L11/00 A47L11/29 A47L5/00 A47L7/00 A47L9/00 E01H1/00 (Core/Invention)

CPC: A47L5/14 A47L7/0028 A47L7/0038 A47L7/0042 A47L9/009 A47L11/40 A47L11/4016 A47L11/4083 A47L2201/00 A47L2201/04 B60B33/001 B60B33/0021 B60B33/0028 B60B33/0039 B60B33/0049 B60B33/0057 B60B33/0068 B60B33/0073 B60B33/028 C11D1/62 C11D1/75 F04D29/4233 G05D1/0219 G05D1/0227 G05D1/0272 G05D2201/0203 Y10S901/01 Y10S901/40 A47L11/302 A47L9/28 A47L11/4011 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4066 A47L11/4069 A47L11/4088 A47L2201/022 A47L9/10 A47L9/2826 A47L9/2852 A47L9/2857 A47L9/2873 A47L9/2884 A47L11/4005 A47L11/4027 B60R19/483 G05D1/0225

US: 15/3 15/319 15/320 15/340.1 15/4 15/50.1 901/1



Family:

Publication number	Publication date	Application number	Application date
US2008134458 AA	20080612	US20070835363	20070807
US7761954 BB	20100727	US20070835363	20070807

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207620	20050819	US20050207574	20050819
US20050207575	20050819	US20060359961	20060221	US20070835363	20070807

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP

Inventor(s): (std): DUSSAULT NANCY ; GILBERT DUANE ; JONES ANDREW ; MORSE CHRISTOPHER J ; MORSE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL ; ZIEGLER ANDREW

Agent(s): GOODWIN PROCTER LLP PATENT ADMINISTRATOR; FISH AND RICHARDSON PC

136) Family number: 60886394 (CO7010798A)

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Title: SISTEMA, METODO Y APARATO PARA EL CUIDADO ELECTRONICO DE PACIENTE SYSTEM, METHOD AND APPARATUS FOR ELECTRONIC PATIENT CARE (Machine translation)

Abstract: Source: CO7010798A [ES] Un sistema para el cuidado electronico de pacientes incluye un eje central. El eje central se configura para monitorear un dispositivo para el cuidado de pacientes. El area de seguridad puede configurarse para controlar el acceso a por lo menos uno de un recurso de hardware y un recurso de software. El eje central se configura ademas para identificar el dispositivo para el cuidado de pacientes y ejecutar una aplicacion para monitorear el dispositivo para el cuidado de pacientes. El eje central ejecuta la aplicacion dentro del componente de area de seguridad, de manera que la aplicacion accede al por lo menos uno del recurso de hardware y el recurso de software a traves del componente de area de seguridad. El eje central puede configurarse ademas para controlar el dispositivo para el cuidado de pacientes. El eje central puede configurarse ademas para recibir una identificacion del dispositivo para el cuidado de pacientes y descargar la aplicacion de un servidor asociado con la identificacion. El eje central puede configurarse ademas para recibir una identificacion del dispositivo para el cuidado de pacientes y actualizar la aplicacion de un servidor asociado con la identificacion. (Ver figura 1)

Machine translation: A system for electronic patient care includes a central axis. The central axis is configured to monitor a device for patient care. The area of security can be configured to control access to at least one of a hardware and software resource. The centerpiece is further configured to identify the device for patient care and running an application for monitoring the device for patient care. The central axis runs the application within the security area component, so that the application accesses the at least one hardware resource and software resource component through the security area. The central hub can also be configured to control the device for patient care. The central hub can also be configured to receive an identification device for the care of patients and download the application of a server associated with the identification. The central hub can also be configured to receive an identification device for patient care and update the application of a server associated with the identification. (see Figure 1)

Classifications:

International (IPC 8-9): G06F19/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
CO7010798 A2	20140731	CO20140157707	20140721

Priority:

WO2011US66588	20111221	CO20140157707	20140721
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Probable Assignee: DEKA PRODUCTS LP

Assignee(s): (std): DEKA PRODUCTS LP

Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s): (std): SCARPACI JACOB W ; KERWIN JOHN M ; KAMEN DEAN ; TURNER JAMES G ; BIASI JOHN J ; BALLANTYNE TODD A

Inventor(s): TODD A BALLANTYNE ; JOHN M KERWIN ; JOHN J BIASI ; JAMES G TURNER ; JACOB W SCARPACI ; DEAN KAMEN

Agent(s): LUZ CLEMENCIA DE PAEZ

137) Family number: 61746395 (US2008140255A)

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Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

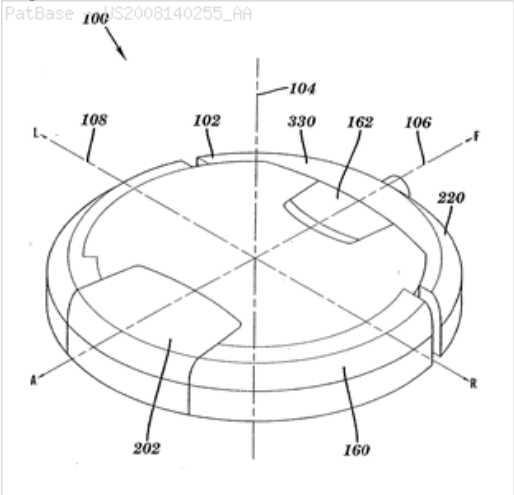
Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/20 A47L11/40 A47L5/00 A47L7/02 A47L9/00 G05D1/02 G06F19/00 (Advanced/Invention); A47L11/00 A47L5/00 A47L7/00 A47L9/00 G05D1/02 G06F19/00 (Core/Invention)

CPC: A47L5/14 A47L7/0028 A47L7/0038 A47L7/0042 A47L9/009 A47L11/40 A47L11/4016 A47L11/4083 A47L2201/00 A47L2201/04 B60B33/001 B60B33/0021 B60B33/0028 B60B33/0039 B60B33/0049 B60B33/0057 B60B33/0068 B60B33/0073 B60B33/028 C11D1/62 C11D1/75 F04D29/4233 G05D1/0219 G05D1/0227 G05D1/0272 G05D2201/0203 Y10S901/01 Y10S901/40 A47L11/302 A47L9/28 A47L11/4011 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4066 A47L11/4069 A47L11/4088 A47L2201/022 A47L9/10 A47L9/2826 A47L9/2852 A47L9/2857 A47L9/2873 A47L9/2884 A47L11/4005 A47L11/4027 B60R19/483 G05D1/0225

US: 15/319 15/4 700/245 701/23 901/1



Family:

Publication number	Publication date	Application number	Application date
US2008140255 AA	20080612	US20070835361	20070807

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207620	20050819	US20050207574	20050819
US20050207575	20050819	US20060359961	20060221	US20070835361	20070807

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP

Inventor(s): (std): DUSSAULT NANCY ; GILBERT DUANE ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL ; ZIEGLER ANDREW

Agent(s): GOODWIN PROCTER LLP PATENT ADMINISTRATOR

138) Family number: 61746396 (US2008155768A)

© PatBase

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

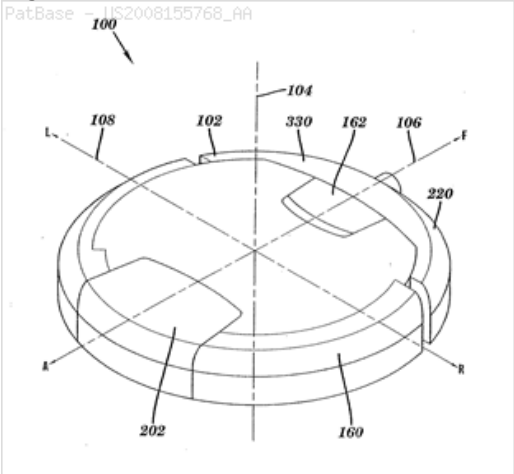
Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/00 A47L5/00 A47L7/00 E01H1/00 G06F19/00 (Advanced/Invention); A47L11/00 A47L7/00 G06F19/00 (Core/Invention)

CPC: A47L5/14 A47L7/0028 A47L7/0038 A47L7/0042 A47L9/009 A47L11/40 A47L11/4016 A47L11/4083 A47L2201/00 A47L2201/04 B60B33/001 B60B33/0021 B60B33/0028 B60B33/0039 B60B33/0049 B60B33/0057 B60B33/0068 B60B33/0073 B60B33/028 C11D1/62 C11D1/75 F04D29/4233 G05D1/0219 G05D1/0227 G05D1/0272 G05D2201/0203 Y10S901/01 Y10S901/40 A47L11/302 A47L9/28 A47L11/4011 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4066 A47L11/4069 A47L11/4088 A47L2201/022 A47L9/10 A47L9/2826 A47L9/2852 A47L9/2857 A47L9/2873 A47L9/2884 A47L11/4005 A47L11/4027 B60R19/483 G05D1/0225

US: 15/319 15/320 15/340.1 15/4 15/50.1 700/245 901/1



Family:

Publication number	Publication date	Application number	Application date
US2008155768 AA	20080703	US20070835360	20070807
US8266754 BB	20120918	US20070835360	20070807
US8387193 BB	20130305	US20070835360	20070807

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207620	20050819	US20050207574	20050819
US20050207575	20050819	US20060359961	20060221	US20070835360	20070807

Probable Assignee: IROBOT CORP

Assignee(s): (std): DUSSAULT NANCY ; GILBERT DUANE ; IROBOT CORP ; JONES ANDREW ; PRATT SCOTT ; SANDIN PAUL ; MORSE CHRISTOPHER J ; ZIEGLER ANDREW

Inventor(s): (std): ZIEGLER ANDREW ; SANDIN PAUL ; PRATT SCOTT ; MORSE CHRISTOPHER JOHN ; MORSE CHRISTOPHER J ; JONES ANDREW ; GILBERT DUANE ; DUSSAULT NANCY

Agent(s): GOODWIN PROCTER LLP PATENT ADMINISTRATOR; FISH AND RICHARDSON PC; FISH AND RICHARDSON P C

139) Family number: 60886396 (CO7160094A)

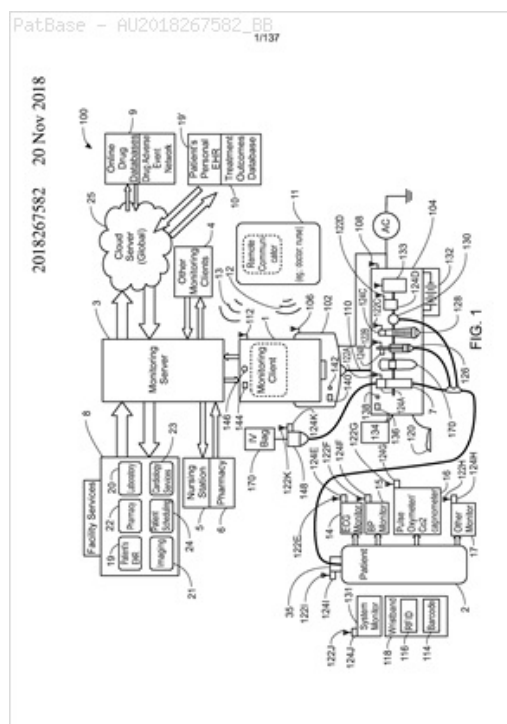
Title: SISTEMA, METODO Y APARATO PARA EL CUIDADO ELECTRONICO DE PACIENTES

Abstract: Source: CO7160094A [ES] Se divulgan un metodo, un sistema relacionado y un aparato. El metodo seimplementa por un conjunto operativo de instrucciones ejecutables por unprocesador, configurado para ejecucion por un procesador. El metodo incluye lasactuaciones de: determinar si un cliente de moni toreo se conecta a una base a traves de una conexi on fisica; establecer un primer enlace de comunicacionesentre el cliente de monitoreo y la base a traves de la conexi on fisica; actualizar, si es necesario, el programa de interfaz en el cliente de monitoreo y la base a traves del primer enlace de comunicaciones; establecer un segundo enlace decomunicaciones entre el cliente de monitoreo y la base usando el primer enlace de comunicaciones; y comunicar datos de la base al cliente de monitoreo usandoel segundo enlace de comunicaciones.

Classifications:

International (IPC 8-9): G06F19/00 G16H20/00 G16H40/40
G16H40/60 (Advanced/Invention)

CPC: A61B5/0022 A61B5/11 G06F3/0481 H04L45/02 H04L67/12
A61B5/7465 H04L67/02 G06F19/3418 G16H10/60 G16H40/20
G16H40/40



Family:

Publication number	Publication date	Application number	Application date
AU2018267582 AA	20181206	AU20180267582	20181120
AU2018267582 BB	20190124	AU20180267582	20181120
CQ7160094 A2	20150115	CQ20140283137	20141224

Priority:

US20120651322P	20120524	US20120480444	20120524	WO2012US00257	20120524
AU20130266256	20130523	WO2013US42350	20130523	AU20180267582	20181120

Probable Assignee: DEKA PRODUCTS LP

Assignee(s): (std): DEKA PRODUCTS LP

Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s): (std): BALLANTYNE TODD A ; ROSSE JONATHAN P ; WILT MICHAEL J ; YEE BRIAN K

Agent(s): GRIFFITH HACK

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR DRY CLEANING

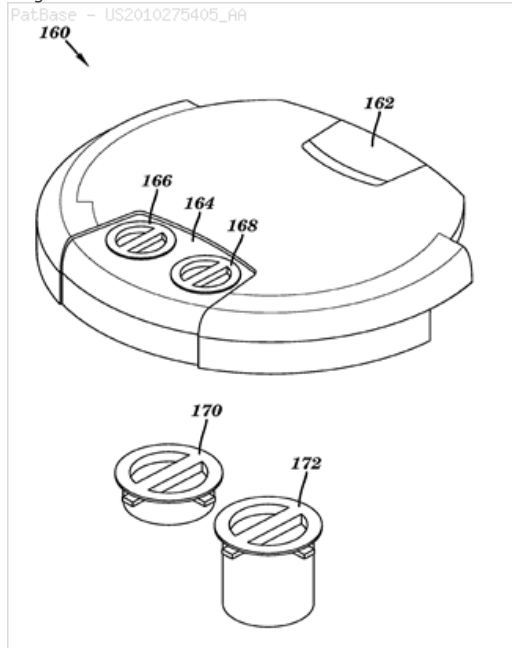
Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/30 A47L11/34 A47L11/40 A47L5/00 A47L5/14 A47L5/30 A47L7/00 A47L9/00 A47L9/28 (Advanced/Invention)

CPC: A47L9/009 A47L9/28 A47L5/14 A47L7/0004 A47L11/302 A47L11/34 A47L11/4002 A47L11/4011 A47L11/4016 A47L11/4041 A47L11/4044 A47L11/4069 A47L11/4088 A47L2201/00

US: 15/319 15/320 15/340.1 15/340.3 15/345 15/346

**Family:**

Publication number	Publication date	Application number	Application date
US2010275405 AA	20101104	US20100836825	20100715
US8966707 BB	20150303	US20100836825	20100715

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207574	20050819	US20050207620	20050819
US20050207575	20050819	US20070835356	20070807	US20100836825	20100715

Probable Assignee: IROBOT CORP

Assignee(s): (std): GILBERT JR DUANE ; IROBOT CORP ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW

Inventor(s): (std): GILBERT JR DUANE ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW

Agent(s): FISH AND RICHARDSON PC

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

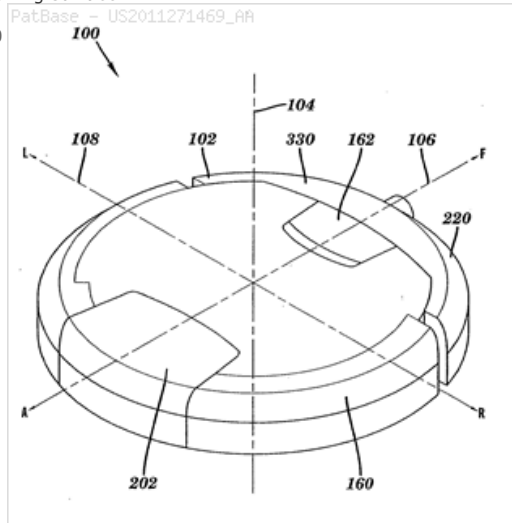
Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/00 A47L11/28 A47L11/30 A47L11/40 A47L5/14 A47L7/00 A47L9/00 B60B33/00 F04D29/42 G05D1/02 G06F19/00 (Advanced/Invention); C11D1/62 C11D1/75 (Advanced/Non-invention)

CPC: B60B33/0068 A47L11/4083 C11D1/75 G05D2201/0203 B60B33/0028 B60B33/0039 A47L7/0028 B60B33/0049 A47L7/0038 B60B33/0073 A47L9/009 F04D29/4233 B60B33/001 B60B33/0057 A47L5/14 B60B33/0021 G05D1/0227 A47L2201/00 A47L11/40 G05D1/0272 C11D1/62 A47L2201/04 G05D1/0219 A47L7/0042 A47L11/4016 B60B33/0039 B60B33/0057 B60B33/028 Y10S901/01 Y10S901/40 A47L11/4011 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4066 A47L11/4069 A47L11/4088 A47L2201/022 A47L11/302 A47L9/28 A47L9/10 A47L9/2826 A47L9/2852 A47L9/2857 A47L9/2873 A47L9/2884 A47L11/4005 A47L11/4027 B60R19/483 G05D1/0225

US: 15/3 15/97.1 700/245 901/1



Family:

Publication number	Publication date	Application number	Application date
US2011271469 AA	20111110	US20110023444	20110208
US8774966 BB	20140708	US20110023444	20110208

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207575	20050819	US20050207620	20050819
US20050207574	20050819	US20060359961	20060221	US20110023444	20110208

Probable Assignee: IROBOT CORP**Assignee(s):** (std): DUSSAULT NANCY ; GILBERT DUANE ; IROBOT CORP ; JONES ANDREW ; PRATT SCOTT ; MORSE CHRISTOPHER JOHN ; SANDIN PAUL ; ZIEGLER ANDREW**Inventor(s):** (std): DUSSAULT NANCY ; GILBERT DUANE ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL ; ZIEGLER ANDREW**Agent(s):** FISH AND RICHARDSON PC**142) Family number: 61746399** (US2012036659A)

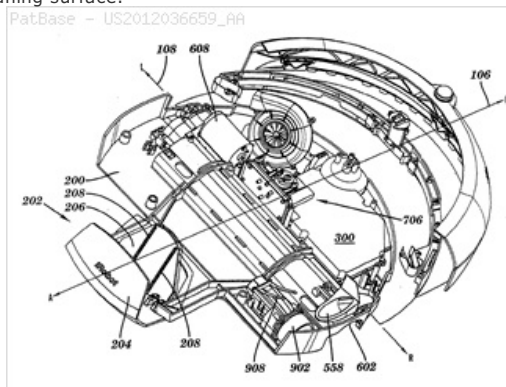
© PatBase

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A46B13/04 A47L11/28 A47L11/30 A47L11/40 A47L5/14 A47L7/00 A47L9/00 B60B33/00 F04D29/42 G05B19/00 G05B19/04 G05D1/02 G06F19/00 (Advanced/Invention); C11D1/62 C11D1/75 (Advanced/Non-invention)
CPC: A47L11/4083 B60B33/0068 B60B33/0049 B60B33/0073 B60B33/0021 B60B33/0057 F04D29/4233 A47L11/40 A47L7/0042 G05D1/0219 A47L11/4016 B60B33/0028 A47L2201/00 A47L7/0038 G05D1/0272 A47L7/0028 B60B33/0039 A47L9/009 C11D1/62 G05D2201/0203 C11D1/75 B60B33/001 A47L2201/04 G05D1/0227 A47L5/14 B60B33/028 Y10S901/01 Y10S901/40 A47L11/4011 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4066 A47L11/4069 A47L11/4088 A47L2201/022 A47L11/302 A47L9/28 A47L9/10 A47L9/2826 A47L9/2852 A47L9/2857 A47L9/2873 A47L9/2884 A47L11/4005 A47L11/4027 B60R19/483 G05D1/0225
US: 15/50.1 15/98 700/245 700/253 700/255 700/258

**Family:**

Publication number	Publication date	Application number	Application date
US2012036659 AA	20120216	US20110280813	20111025
US8855813 BB	20141007	US20110280813	20111025

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207575	20050819	US20050207620	20050819
US20050207574	20050819	US20060359961	20060221	US20110280813	20111025

Probable Assignee: IROBOT CORP**Assignee(s):** (std): DUSSAULT NANCY ; GILBERT DUANE ; IROBOT CORP ; PRATT SCOTT ; MORSE CHRISTOPHER JOHN ; JONES ANDREW ; SANDIN PAUL ; ZIEGLER ANDREW**Inventor(s):** (std): ZIEGLER ANDREW ; SANDIN PAUL ; PRATT SCOTT ; MORSE CHRISTOPHER JOHN ; JONES ANDREW ; GILBERT DUANE ; DUSSAULT NANCY**Agent(s):** FISH AND RICHARDSON PC**143) Family number: 61746400** (US2012180254A)

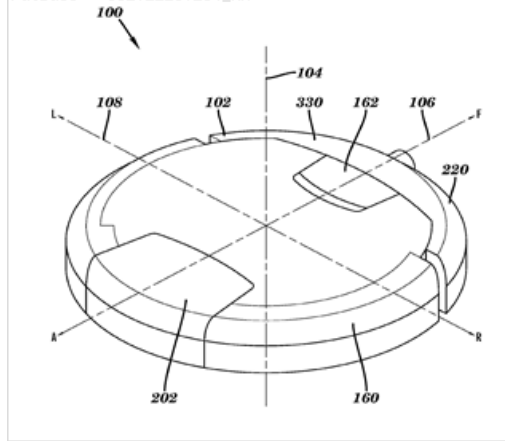
© PatBase

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR DRY CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L5/14 A47L9/10 (Advanced/Invention)
US: 15/319 15/340.3 15/345 15/346

**Family:**

Publication number	Publication date	Application number	Application date
US2012180254 AA	20120719	US20120429830	20120326
US8782848 BB	20140722	US20120429830	20120326

Priority:

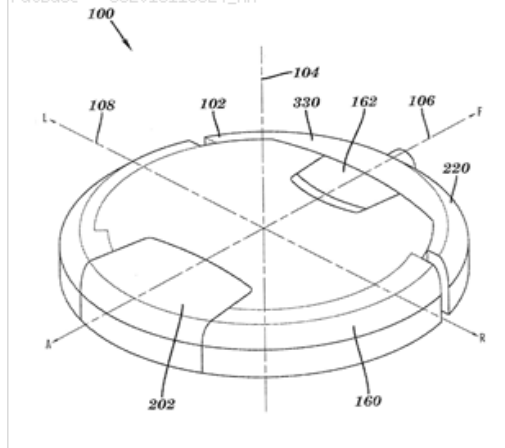
US20050654838P 20050218	US20050133796 20050521	US20050134212 20050521
US20050134213 20050521	US20050207574 20050819	US20070835356 20070807
US20100836825 20100715	US20120429830 20120326	

Probable Assignee: IROBOT CORP**Assignee(s):** (std): GILBERT JR DUANE ; GILBERT JR DUANE L ; IROBOT CORP ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW**Inventor(s):** (std): GILBERT JR DUANE ; GILBERT JR DUANE L ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW**Agent(s):** FISH AND RICHARDSON PC**144) Family number: 61746401 (US2013118524A)**

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Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:**International (IPC 8-9):** A47L11/28 (Advanced/Invention)**CPC:** A47L11/28**US:** 134/6 15/98**Family:**

Publication number	Publication date	Application number	Application date
US2013118524 AA	20130516	US20120719552	20121219

Priority:

US20050654838P 20050218	US20050133796 20050521	US20050134212 20050521
US20050134213 20050521	US20050207575 20050819	US20070835359 20070807
US20120719552 20121219		

Probable Assignee: IROBOT CORP**Assignee(s):** (std): IROBOT CORP**Inventor(s):** (std): KONANDREAS STEFANOS ; MORSE CHRISTOPHER J ; ZIEGLER ANDREW

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET CLEANING

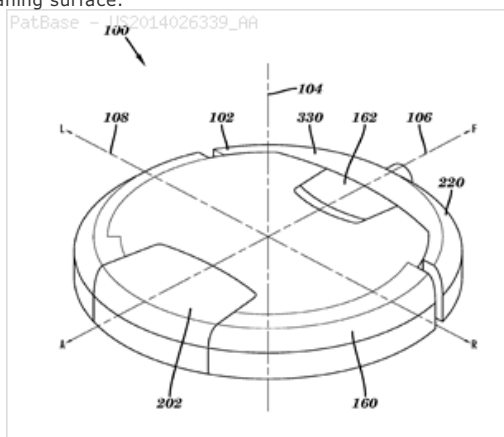
Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A22C17/00 A47L11/08 A47L11/19 A47L11/28 A47L11/292 A47L11/30 A47L11/34 A47L11/40 A47L5/14 A47L7/00 B08B1/04 (Advanced/Invention)

CPC: A47L11/292 A47L11/4083 A47L11/4044 A47L11/4041 A47L11/4061 A22C17/0013 A47L5/14 A47L7/0009 A47L7/0028 A47L7/0038 A47L7/0042 A47L11/302 A47L11/34 A47L11/4002 A47L11/4011 A47L11/4016 A47L11/4069 A47L11/4072 A47L11/4088 A47L11/28 A47L2201/00

US: 134/184 134/198 15/50.1 15/50.3

**Family:**

Publication number	Publication date	Application number	Application date
US2014026339 AA	20140130	US20130044312	20131002
US8985127 BB	20150324	US20130044312	20131002

Priority:

US20050654838P 20050218	US20050133796 20050521	US20050134212 20050521
US20050134213 20050521	US20050207575 20050819	US20070835359 20070807
US20120719552 20121219	US20130044312 20131002	

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP ; KONANDREAS STEFANOS ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW

Inventor(s): (std): KONANDREAS STEFANOS ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW

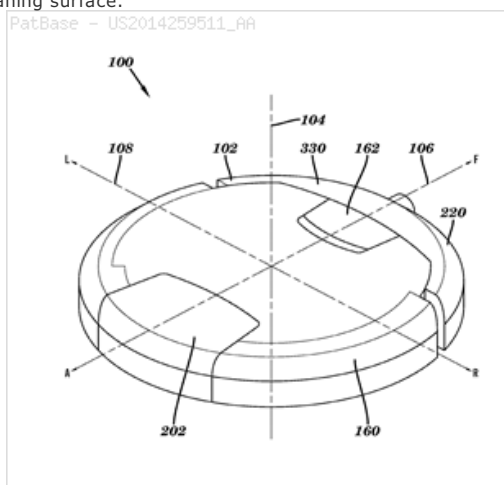
Agent(s): FISH AND RICHARDSON PC

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR DRY CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/30 (Advanced/Invention)
CPC: A47L11/302 A47L9/009 A47L5/14 A47L7/0004 A47L9/28 A47L11/34 A47L11/4002 A47L11/4011 A47L11/4016 A47L11/4041 A47L11/4044 A47L11/4069 A47L11/4088 A47L2201/00
US: 15/319

**Family:**

Publication number	Publication date	Application number	Application date
US2014259511 AA	20140918	US20140292090	20140530

Priority:

US20050654838P 20050218	US20050133796 20050521	US20050134212 20050521
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US20050207575 20050819	US20070835356 20070807	US20100836825 20100715
US20140292090 20140530		

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP
Inventor(s): (std): GILBERT JR DUANE L ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW

147) Family number: 61746404 (US2014289992A)

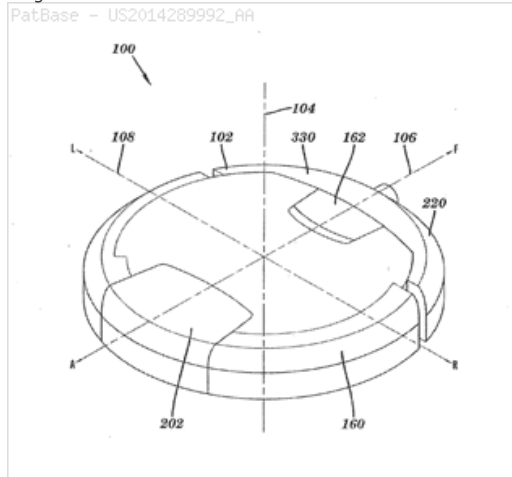
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Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/30 A47L11/40 A47L5/14 A47L7/00 A47L9/00 A47L9/28 B60B33/00 B60B33/02 F04D29/42 G01C22/00 G05D1/00 G05D1/02 (Advanced/Invention); C11D1/62 C11D1/75 (Advanced/Non-invention)
CPC: Y10S901/01 Y10S901/40 A47L5/14 A47L7/0028 A47L7/0038 A47L7/0042 A47L9/009 A47L11/40 A47L11/4016 A47L11/4083 B60B33/001 B60B33/0021 B60B33/0028 B60B33/0039 B60B33/0049 B60B33/0057 B60B33/0068 B60B33/0073 B60B33/028 F04D29/4233 G05D1/0219 G05D1/0227 G05D1/0272 A47L2201/00 A47L2201/04 C11D1/62 C11D1/75 G05D2201/0203 A47L11/4011 A47L11/4041 A47L11/4044 A47L11/4061 A47L11/4066 A47L11/4069 A47L11/4088 A47L2201/022 A47L11/302 A47L9/28 A47L9/10 A47L9/2826 A47L9/2852 A47L9/2857 A47L9/2873 A47L9/2884 A47L11/4005 A47L11/4027 B60R19/483 G05D1/0225
US: 1/1 15/320 15/98 901/1 901/40



Family:

Publication number	Publication date	Application number	Application date
US2014289992 AA	20141002	US20140301454	20140611
US9445702 BB	20160920	US20140301454	20140611

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207575	20050819	US20050207620	20050819
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US20140301454	20140611				

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP

Inventor(s): (std): DUSSAULT NANCY ; GILBERT JR DUANE L ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL E ; ZIEGLER ANDREW

Agent(s): FISH AND RICHARDSON PC

148) Family number: 61746405 (US2015289741A)

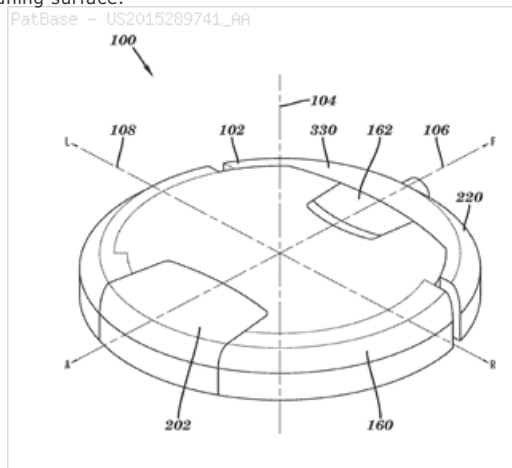
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Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/292 A47L11/30 A47L11/40 A47L7/00 (Advanced/Invention)
CPC: A47L11/292 A47L7/0009 A47L7/0038 A47L7/0042 A47L11/302 A47L11/4008 A47L11/4011 A47L11/4016 A47L11/4019 A47L11/4041 A47L11/4044 A47L11/4072 A47L11/4083 A47L11/4088 A47L11/4061 A47L2201/04 A47L2201/00 A22C17/0013 A47L5/14 A47L7/0028 A47L11/28 A47L11/34 A47L11/4002 A47L11/4069
US: 15/319 15/320



Family:

Publication number	Publication date	Application number	Application date
US2015289741 AA	20151015	US20150665626	20150323

Priority:

US20050654838P 20050218 US20050133796 20050521 US20050134212 20050521
US20050134213 20050521 US20050207575 20050819 US20070835359 20070807
US20120719552 20121219 US20130044312 20131002 US20150665626 20150323

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP

Inventor(s): (std): KONANDREAS STEFANOS ; MORSE CHRISTOPHER JOHN ; ZIEGLER ANDREW

149) Family number: 56772407 (DE102012025503A1)

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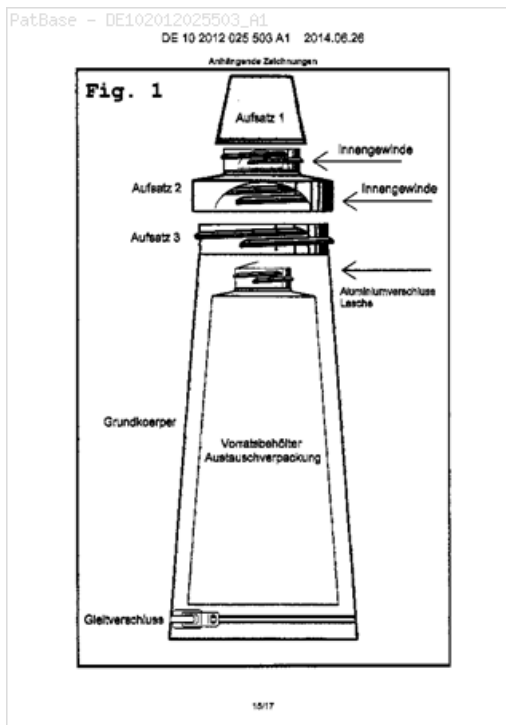
Title: HANDGRIP FOR ACTIVE INGREDIENT AND/OR MATERIAL DELIVERY IN RESTAURANT, HAS ACTIVE INGREDIENT - AND/OR MATERIAL PRE-TREATED FOR FORMING HANDGRIP WITH STANDARDIZED MODULAR STRUCTURE, AND HOLLOW BODY FORMED BY MUTUALLY COMPLEMENTARY MODULES

Abstract: The handgrip has an active ingredient -and/or material pre-treated for forming the handgrip with a standardized modular structure. A hollow body is formed by mutually complementary modules with a body cap, a reservoir and replacement packaging. Article bodies are firmly fastened with the base body by the active ingredient and/or material. The reservoir consists of natural materials and exchange packaging paper. A film comprises a layer thickness between about 4-200 micrometer, preferably 12-40 micrometer.

Classifications:

International (IPC 8-9): B05C17/00 B05C21/00 (Advanced/Invention)

CPC: B05C17/01 B65D83/0005 B05C17/00576



Family:

Publication number	Publication date	Application number	Application date
DE102012025503 A1	20140626	DE201210025503	20121218

Priority:

DE201210025503 20121218

Probable Assignee:

WAGENER ARNO

Assignee(s): (std):

WAGENER ARNO

150) Family number: 32681415 (US2002028288A)

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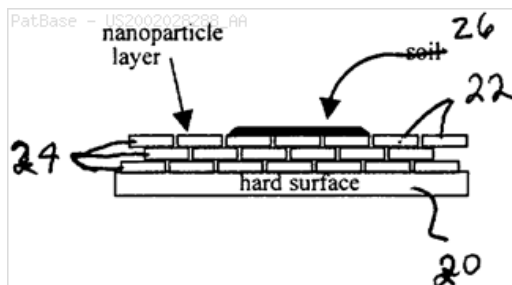
Title: LONG LASTING COATINGS FOR MODIFYING HARD SURFACES AND PROCESSES FOR APPLYING THE SAME

Abstract: Materials for coating, coating compositions, methods and articles of manufacture comprising a nanoparticle system or employing the same to impart surface modifying benefits for all types of inanimate hard surfaces are disclosed. In some embodiments, dispersion of nanoparticles in a suitable carrier medium allows for the creation of coating compositions, methods and articles of manufacture that create multi-use benefits to modified hard surfaces. These surface modifications can produce long lasting or semi-permanent multi-use benefits that include at least one of the following improved surface properties: wetting and sheeting, quick drying, uniform drying, soil removal, self-cleaning, anti-spotting, anti-soil deposition, cleaner appearance, enhanced gloss, enhanced color, minor surface defect repair, smoothness, anti-hazing, modification of surface friction, release of actives and transparency, relative to hard surfaces unmodified with such nanoparticle systems. Actively curing the coating composition on the hard surfaces, including, but not limited to by radiative heating the air surrounding the hard surface with the coating thereon can be used to increase the durability of the hard surface coating.

Classifications:

International (IPC 8-9): A47L13/51 B01D27/08 B01J35/02
B01J39/04 B01J41/04 B01J41/14 B01J47/00 B01J47/02 B01J47/04
B05B1/18 B05B17/00 B05B9/01 B05D1/04 B05D3/00 B05D3/02
B05D5/00 B05D7/14 B05D7/24 B08B3/00 B08B3/02 B08B3/04
B08B3/08 B08B7/04 B32B27/20 B60S1/66 B60S3/00 B60S3/04

C02F1/00 C02F1/42 C04B41/50 C08K3/34 C09C1/42 C09C3/00
C09D1/00 C09D1/04 C09D129/06 C09D133/02 C09D133/08
C09D201/00 C09D5/00 C09D5/02 C09D7/12 C09G1/04 C09K3/00
C11D1/62 C11D1/72 C11D1/76 C11D11/00 C11D17/00 C11D3/00
C11D3/08 C11D3/12 C11D3/14 C11D3/37 C11D7/22
F16K11/074 (Advanced/Invention);
C02F1/42 (Advanced/Non-invention);
B01D27/08 B01J39/00 B01J47/00 B05B1/18 B05B9/00 B05D1/04
B05D3/00 B05D5/00 B05D7/14 B08B3/02 B08B3/08 B08B7/04
B60S3/00 C02F1/00 C02F1/42 C09D1/00 C09D7/12 C11D11/00
C11D17/00 C11D3/00 C11D3/08 C11D3/12 C11D3/14 C11D3/37
F16K11/06 (Core/Invention);
C02F1/42 (Core/Non-invention)



International (IPC 1-7): A62C13/62 B01D27/08 B01D35/02
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B08B3/14 B08B7/00 B08B7/04 B32B19/00 B32B27/20 B32B9/00 B60S3/00 B60S3/04 C02F1/42 C04B41/50 C08G1/04
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F16K11/074 H05C1/00
CPC: C03C23/0075 B05B9/01 F16K11/074 Y10T428/25 Y10T137/86863 Y10T137/4891 C02F1/003 C02F2201/006 Y02W10/37
B01J39/05 B01J47/012 A47L13/51 B01J47/024 B60S3/047 C02F1/42 C02F2001/422 C02F2001/425 C11D11/0064 B05D7/14
B05D5/00 C09D7/61 C09D7/67 C09D7/68 C09D7/70 B05D7/532 B05D2601/20 B05D1/04 B05D3/02 C11D17/0043
B08B3/026 C08K3/22 C08K3/346 C09D1/00 C11D3/1213 C11D3/1253 C11D3/1266 C11D3/14 C11D3/3776 C11D3/3792
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European: A47L13/51 B01J39/04B B01J47/00D B01J47/02B2 B08B3/02H B60S3/04D2 C02F1/00D4 C02F1/42 C03C23/00F
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M02F1/42D M02F201/00D8 M08K3/22 M08K3/34B
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134/111 134/123 134/172 134/172S 134/198 134/198S 134/2 134/201 134/201S 134/26 134/26P 134/26S 134/29 134/29S
134/34 134/34S 134/36 134/36S 134/40 134/41 134/42 134/42S 134/6 134/6P 134/6S 134/7 134/7S 134/95.3 137/268
137/625.46 210/236 210/251 210/282 210/450 210/460 239/304 239/304S 239/305 239/305S 239/310 239/443 239/445
239/526 239/526P 239/575 239/581.1 239/588 427/162 427/162S 427/18 427/180 427/180P 427/180S 427/201 427/202
427/203 427/204 427/205 427/327 427/327S 427/372.2 427/372.200P 427/372.200S 427/376.1 427/376.100S 427/384
427/384S 427/388.4 427/388.400P 427/393.4 427/393.400S 427/402 427/402S 427/407.1 427/407.100S 427/409 427/421
427/421.1 427/421.100S 427/427 427/427.4 427/427.400S 427/427.5 427/427.500S 427/427.7 427/427.700S 427/458
427/458S 427/475 427/475S 428/323 428/323P 428/689 428/689P 428/697 428/697S 428/702 428/702S 510/108 510/189
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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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WO2005US04732	20050209				

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): GOLDSTEIN ALAN SCOTT ; HORSTMAN RICHARD LAWRENCE ; CLARE BENJAMIN JACOB ; BARGER BRUCE ; CANNON WILLIAM MICHAEL ; PROCTER AND GAMBLE ; NA HENRY CHENG ; WOOTON JOHN ALLEN ; KRUEZER MELISSA ANN ; MILLER CHRISTOPHER MILES ; KERN KENNETH NORMAN ; PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE CO

Assignee(s): ROHRBAUGH ROBERT HENRY ; LIDDLE HEATHER ANNE ; MCDONALD MICHAEL RAY ; WOOTON JOHN A ; LEAHY MORGAN THOMAS ; MCDONALD MICHAEL R ; VINSON PHIL KYLE ; SCHEPER WILLIAM MICHAEL ; SAKKAB NABIL YAQUB ; LOUGHNAME BRIAN JOSEPH ; THE PROCTER AND GAMBLE COMPANY ; O CONNOR HELEN FRANCES ; JORDAN GLENN THOMAS IV ; JENSEN JOHN MICHAEL ; CROWE THOMAS GEORGE ; CARTER JOHN D ; CARTER JOHN DAVID ; CANNON WILLIAM M ; JORDAN GLEN THOMAS ; GOSSELINK EUGENE PAUL ; EVERS MARC FRANCOIS ; GHOSH CHANCHAL KUMAR ; HORSTMAN RICHARD L ; CROWE THOMAS GEROG ; BAREA CARLOS ANTONIO

Inventor(s): (std): BARGER BRUCE ; BRIAN JOSEPH LOUGHNAME ; BRUCE BARGER ; CARLOS ANTONIO BAREA ; CARTER JOHN D ; CARTER JOHN DAVID ; CARTER R H ROHRBAUGH M R MCDON ; CHANCHAL KUMAR GHOSH ; CHENG NA HENRY ; CROWE GEORGE ; EUGENE PAUL GOSSELINK ; EVERS MARC FRANCOIS ; GHOSH CHANCHAL KUMAR ; GOLDSTEIN ALAN SCOTT ; GOLDSTEIN AS ; GOLDSTEIN SCOTT ; GOSSELINK EUGENE PAUL ; HEATHER ANNE LIDDLE ; HELEN FRANCES O CONNOR ; HENRY ROBERT ; IV GLENN THOMAS JORDAN ; JD CARTER ; JENSEN JOHN MICHAEL ; JOHN DAVID CARTER ; KREUZER MELISSA ANN ; LEAHY MORGAN ; LEAHY THOMAS ; LIDDLE HEATHER ANNE ; MCDONALD MICHAEL R ; MCDONALD MICHAEL RAY ; MCDONALD RAY ; MCDONALD MICHAEL RAY ; MELI CANNON WILLIAM MICHAEL WO ; MARC FRANCOIS EVERS ; MICHAEL RAY MCDONALD ; MORGAN THOMAS LEAHY ; MR MCDONALD ; NORMAN WOOTON JOHN ALLEN KERN ; O CONNOR FRANCES ; PHIL KYLE VINSON ; RH ROHRBAUGH ; ROBERT HENRY ROHRBAUGH ; ROHRBAUGH HENRY ; ROHRBAUGH ROBERT HENRY ; SAKKAB NABIL YAQUB ; SCHEPER WILLIAM MICHAEL ; VINSON PHILLIP KYLE ; WILLIAM MICHAEL SCHEPER ; WOOTON JOHN A ; WOOTON JOHN ALLEN ; NA HENRY ; MILLER CHRISTOPHER MILES ; LOUGHNAME BRIAN JOSEPH ; LEAHY MORGAN THOMAS ; KRUEZER MELISSA ANN ; KERN KENNETH NORMAN ; JORDAN GLENN THOMAS ; JORDAN GLEN THOMAS ; HORSTMAN RICHARD LAWRENCE ; HORSTMAN RICHARD L ; GOLDSTEIN ALAN ; GHOSH IV GLENN THOMAS ; CROWE THOMAS GEROG ; CROWE THOMAS GEORGE ; CLARE BENJAMIN JACOB ; CANNON WILLIAM MICHAEL ; CANNON WILLIAM M ; BAREA CARLOS ANTONIO ; ALAN SCOTT GOLDSTEIN ; VINSON PHIL KYLE ; SAKKAB NABIL YAGUB ; ROHRBAUGH R H ; MILLER CHRISTOPHER M ; MCDONALD M R ; LOUGHNAME BRIAN JOSEPH ; KREUZER MELISSA A ; GOLDSTEIN A S ; CLARE BENJAMIN J ; CARTER J D ; O CONNOR HELEN FRANCES ; NA HENRY CHENG ; JORDAN GLENN THOMAS IV

Inventor(s): CANNON WILLIAM MICHAEL WOOTON JOHN ALLEN CLARE BEN ; A S GOLDSTEIN ; CANNON WILLIAM MICHAEL WOOTON JOHN ALLEN CLARE... ; BRIAN JOSEPH LOUGHNAME ; ROBERT HENRY ; CARTER JOHN ; GOSSELINK E GHOSH CHANCAL ; JENSEN JOHN ; JORDAN IV GLENN THOMAS ; WOOTON JOHN ALLEN KERN KENNETH NORMAN ; WOOTON JOHN ; THOMAS GEORGE CROWE ; SAKKAB NABIL ; ROHRBAUGH ROBERT ; RH ROHRBAUGH MR MCDONALD JD CARTER ; R H ROHRBAUGH ; R H ROHRBAUGH M R MCDONALD J D CARTER ; OCONNOR HELEN ; NABIL YAQUB SAKKAB ; MILLER CHRISTOPHER ; MCDONALD MICHAEL ; MICHAEL R MCDONALD ; LINDDL ; M R MCDONALD ; JOHN MICHAEL JENSEN ; KREUZER MELISSA ; JOHN D CARTER ; J D CARTER ; HORSTMAN RICHARD ; GLENN THOMAS JORDAN IV ; CLARE BENJAMIN ; CANNON WILLIAM ; CANNON WILLIAM MICHAEL WOOTON JOHN ALLEN CLARE BENJAMIN JACOB MILLER CHRISTOPHER MILES KRUEZER MELISSA ANN

Agent(s): DIMOCK STRATTON LLP ; WILSON LUE LLP ; HARNECKER ; THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION; KIM WILLIAM; LAURA R; STEVEN W; KIM W; JEFFREY V; MARK A; MICHAEL J; AMY I; ZERBY KIM WILLIAM; BAMBER JEFFREY V; CHARLES MARK A

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

151) Family number: 59140424 (US2015126349A)

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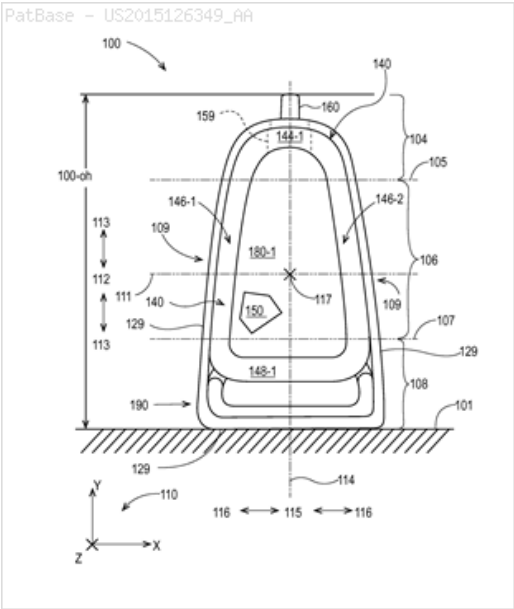
Title: FLEXIBLE CONTAINERS AND METHODS OF FORMING THE SAME

Abstract: A method for sealing and cutting of a flexible material for forming a flexible container comprising a product volume and at least one structural support volume can include feeding at least two flexible material into a sealing apparatus comprising a sealing surface and an opposed anvil surface; contacting a seam region of the at least two flexible material with the sealing surface to form a seal in the seam region and cut the seal to form a seam in a single unit operation. The seal defines one or both of at least a portion of a boundary of the product volume and at least a portion of a boundary of the at least one structural support volume.

Classifications:

International (IPC 8-9): B31B29/60 B31B50/64 B31B70/60
B31B70/64 B32B37/06 B32B37/20 B32B38/00 B32B38/18 B65B1/02
B65B3/02 B65B5/02 B65D30/10 B65D33/02 B65D75/00 B65D75/08
B65D75/20 B65D75/52 B65D75/54 B65D75/56 B65D75/58
B65D81/03 (Advanced/Invention);
B31B150/00 B31B160/20 B31B160/30 B31B70/00
B31B70/64 (Advanced/Non-invention)
CPC: B32B37/20 B32B38/0004 B32B37/06 B32B38/18
B32B2307/7242 B32B2309/02 B32B2439/46 B65D75/00 B31B70/008
B31B70/64 B31B2150/00 B31B2150/002 B31B2160/20 B31B2160/30

B65B1/02 B65B3/02 B65B5/02 B65D31/16 B65D33/02 B65D75/008
B65D75/20 B65D75/525 B65D75/54 B65D75/566 B65D75/5877
B65D75/5883 B65D81/03 B65D2205/02 Y10T156/1015
Y10T156/1049 Y10T156/1051 Y10T156/1054 Y10T156/1313
B31B70/60
US: 493/194 493/203



Family:

Publication number	Publication date	Application number	Application date
BR112016010210 A2	20170808	BR20161110210	20141106
CA2925705 AA	20160329	CA20142925705	20141106
CN105683060 A	20160615	CN201480060439	20141106
CN105683060 B	20180130	CN201480060439	20141106
DE602014021001 D1	20180315	DE201460021001T	20141106
EP3066021 A1	20160914	EP20140802556	20141106
EP3066021 B1	20180214	EP20140802556	20141106
ID201705540 A	20170526	ID2016P0002445	20141106
IN201617011065 A	20160812	IN201617011065	20160330
JP2017501060 T2	20170112	JP20160552475T	20141106
MX2016005518 A1	20160722	MX20160005518	20141106
US2015126349 AA	20150507	US20140534197	20141106
US9993986 BB	20180612	US20140534197	20141106
WO15069819 A1	20150514	WO2014US64207	20141106

Priority:

US20130900450P 20131106 EP20140802556 20141106 US20140534197 20141106
WO2014US64207 20141106

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; STANLEY SCOTT ; PROCTER AND GAMBLE CO CINCINNATI ; BOURGEOIS MARC ; CLARE BENJAMIN ; ISHIHARA TADAYOSHI ; LESTER JOSEPH ; PROCTOR AND GAMBLE CO

Inventor(s): (std): BENJAMIN CLARE ; BOURGEOIS MARC ; BOURGEOIS MARC ; CLARE BENJAMIN ; ISHIHARA TADAYOSHI ; ISHIHARA TADAYOSHI ; JOSEPH LESTER ; LESTER JOSEPH ; MARC BOURGEOIS ; SCOTT STANLEY ; STANLEY SCOTT ; TADAYOSHI ISHIHARA

Inventor(s): TADAYOSHI ISHIHARA ; STANLEY SCOTT CINCINNATI ; LESTER JOSEPH CINCINNATI ; ISHIHARA TADAYOSHI CINCINNATI ; CLARE BENJAMIN CINCINNATI ; BOURGEOIS MARC CINCINNATI

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; ENGISCH GAUTIER; MAULITTA PRAMULASARI; TANI AND ABE PC; CHARLES R; GUFFEY TIMOTHY B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

152) Family number: 56563424 (US8740019B)

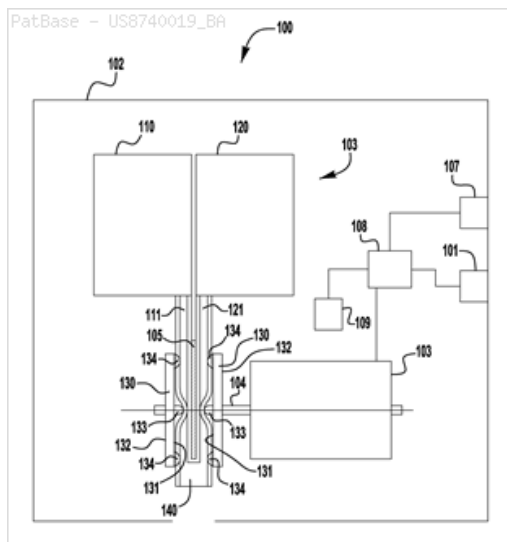
PatBase

Title: FOAM DISPENSING SYSTEMS WITH MULTIPLE LIQUID SUPPLIES, AND RELATED REFILL UNITS

Abstract: An exemplary foam dispenser includes a housing, a plate located in the housing, a first dispensing wheel located proximate the plate. The first dispensing wheel has a plurality of pinch members and is rotatable about an axis. The exemplary dispenser includes a second dispensing wheel located proximate the plate. The second dispensing wheel having a plurality of pinch members and rotatable about the same axis as the first dispensing wheel. Rotation of the first dispensing wheel is configured to pinch a first flexible tube against the plate and to move a first liquid through the first tube; and rotation of the second dispensing wheel is configured to pinch a second flexible tube against the plate and to move a second liquid through the first tube. The exemplary dispenser includes a motor for rotating the first and second dispensing wheels and a motor controller for starting and stopping the motor.

Classifications:

International (IPC 8-9): A47K5/12 A47K5/14 A47K5/16 B65D37/00
B67D7/66 B67D7/74 F04B43/12 (Advanced/Invention);
A47K5/14 (Advanced/Non-invention)
CPC: A47K5/16 A47K5/1215
US: 222/129.1 222/138 222/145.5 222/145.6 222/190 222/214
222/63 417/477.1



Family:

Publication number	Publication date	Application number	Application date
AU2014216634 AA	20151001	AU20140216634	20140205
AU2014216634 BB	20171214	AU20140216634	20140205
BR112015019709 A2	20170718	BR20151119709	20140205
CA2901219 AA	20150813	CA20142901219	20140205
CN105142474 A	20151209	CN201480021686	20140205
DE602014005490 D1	20170126	DE201460005490T	20140205
EP2956043 A1	20151223	EP20140705923	20140205
EP2956043 B1	20161214	EP20140705923	20140205
JP2016512981 T2	20160512	JP20150558029T	20140205
JP6433077 B2	20181205	JP20150558029T	20140205
TW201441143 A	20141101	TW20140105256	20140218
US8740019 BA	20140603	US20130769672	20130218
WO14126752 A1	20140821	WO2014US14753	20140205

Priority:

US20130769672 20130218 EP20140705923 20140205 WO2014US14753 20140205

Probable Assignee: GOJO IND INC

Assignee(s): (std): CIAVARELLA NICK E ; GALLO MICHAEL J ; GOJO IND INC

Assignee(s): GOJO IND INC AKRON ; PNC BANK NATIONAL ASSOCIATION AGENT AS

Inventor(s): (std): MICHAEL J GALLO ; NICK E CIAVARELLA ; GALLO MICHAEL J ; CIAVARELLA NICK E

Inventor(s): CIAVARELLA NICK E SEVEN HILLS ; GALLO MICHAEL J TWINSBURG

Agent(s): COLLISON AND CO; SIM AND MCBURNEY; MARKS AND CLERK; TETZNER AND PARTNER MBB PATENT U RECHTSANWAELTE; TETZNER MICHAEL; NAGAI YOSHIHISA; CALFEE HALTER AND GRISWOLD LLP; BONNER CHET J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

153) Family number: 55899427 (US2014059790A)

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Title: DEVICES AND METHODS FOR DISPENSING FLUIDS AND WIPING SURFACES

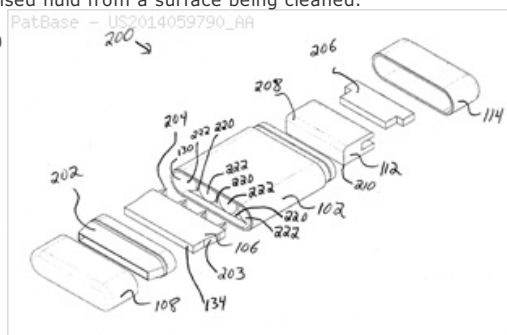
Abstract: The disclosure herein provides devices and methods for dispensing fluids and wiping surfaces. A cleaning device comprises a housing having an internal cavity configured to retain a cleaning fluid, a dispenser in fluid communication with the internal cavity and having a dispensing surface configured to dispense at least a portion of cleaning fluid from the internal cavity, and a wiper having a wiping surface configured to wipe dispensed fluid from a surface being cleaned.

Classifications:

International (IPC 8-9): A47L13/12 A47L13/26 A47L13/50 A47L25/00 B08B1/00 B65D1/04 B65D1/06 B65D47/42 (Advanced/Invention)

CPC: B08B1/006 A47L13/12 A47L13/26 A47L13/50 A47L25/00 B65D1/04 B65D1/06 B65D47/42

US: 1/1 15/118 401/261



Family:

Publication number	Publication date	Application number	Application date
US2014059790 AA	20140306	US20130802032	20130313

US2016310995 AA	20161027	US20160138736	20160426
US9333540 BB	20160510	US20130802032	20130313

Priority:

US20120695028P 20120830 US20130757032P 20130125 US20130802032 20130313
US20160138736 20160426

Probable Assignee: NORILLA LLC

Assignee(s): (std): NORILLA LLC

Assignee(s): HANS ALL LLC

Inventor(s): (std): BUSHAW JEFF ; BUSHAW SCOTT MARTIN ; ZAMAN IMRAN

Agent(s): KNOBBE MARTENS OLSON AND BEAR LLP

154) Family number: 62728430 (US2016176578A)

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Title: FLEXIBLE CONTAINERS WITH EASILY VARIABLE SIZING

Abstract: Non-durable self-supporting flexible containers with easily variable sizing. Line ups of flexible containers have similar sizes, shapes, and constructions, but hold differing amounts of fluent product at unexpected fill heights.

Classifications:

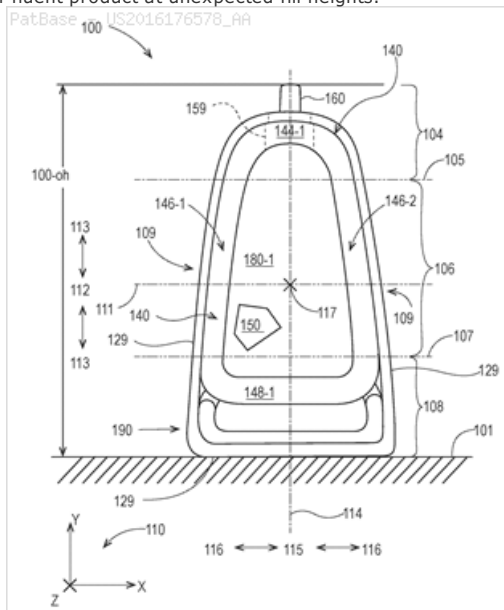
International (IPC 8-9): B65D25/56 B65D30/10 B65D30/16

B65D35/02 B65D65/38 B65D75/00 B65D75/52

B65D85/00 (Advanced/Invention)

CPC: B65D25/56 B65D65/38 B65D35/02 B65D2203/00 B65D75/008

US: 206/459.5



Family:

Publication number	Publication date	Application number	Application date
BR112017012878 A2	20180130	BR20171112878	20151218
CA2968690 AA	20170523	CA20152968690	20151218
CN107108095 A	20170829	CN201580069446	20151218
EP3233661 A1	20171025	EP20150823280	20151218
IN201717020620 A	20171124	IN201717020620	20170613
JP2017537853 T2	20171221	JP20170531905T	20151218
MX2017008205 A1	20171006	MX20170008205	20151218
US2016176578 AA	20160623	US20150973822	20151218
US9694942 BB	20170704	US20150973822	20151218
WO16100757 A1	20160623	WO2015US66538	20151218

Priority:

US20140094550P 20141219 US20140094567P 20141219 US20150973822 20151218
WO2015US66538 20151218

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER AND

Assignee(s): LESTER JOSEPH CRAIG ; MCGUIRE KENNETH STEPHEN ; STANLEY SCOTT KENDYL ; ISHIHARA TADAYOSHI ; YOU JUN ; ARENT LEE MATHEW ; BERG CHARLES JOHN JR ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; PROCTER AND GAMBLE CO

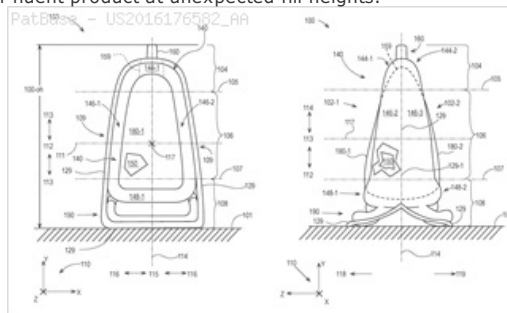
Inventor(s): (std): ARENT LEE MATHEW ; BENJAMIN JACOB CLARE ; BERG CHARLES JOHN JR ; BERG JR CHARLES JOHN ; BOURGEOIS MARC RICHARD ; CHARLES JOHN BERG JR ; CLARE BENJAMIN JACOB ; ISHIHARA TADAYOSHI ; JOSEPH CRAIG LESTER ; JUN YOU ; KENNETH STEPHEN MCGUIRE ; LEE MATHEW ARENT ; LESTER JOSEPH CRAIG ; MARC RICHARD BOURGEOIS ; MCGUIRE KENNETH STEPHEN ; SCOTT KENDYL STANLEY ; STANLEY SCOTT KENDYL ; TADAYOSHI ISHIHARA ; YOU JUN

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; TANI AND ABE PC; JEFFREY V; CHARLES R; KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FLEXIBLE CONTAINERS WITH EASILY VARIABLE SIZING**Abstract:** Non-durable self-supporting flexible containers with easily variable sizing. Line ups of flexible containers have similar sizes, shapes, and constructions, but hold differing amounts of fluent product at unexpected fill heights.**Classifications:****International (IPC 8-9):** B65D30/10 B65D30/16 B65D35/02

B65D35/24 B65D75/00 (Advanced/Invention)

CPC: B65D35/02 B65D35/24 B65D75/008**US:** 206/277 220/23.83**Family:**

Publication number	Publication date	Application number	Application date
BR112017012866 A2	20180130	BR20171112866	20151218
CA2968891 AA	20170524	CA20152968891	20151218
CN107108076 A	20170829	CN201580069420	20151218
EP3233663 A1	20171025	EP20150828714	20151218
IN201717020495 A	20171117	IN201717020495	20170612
JP2018502783 T2	20180201	JP20170531907T	20151218
MX2017008211 A1	20171006	MX20170008211	20151218
US2016176582 AA	20160623	US20150973827	20151218
WO16100758 A1	20160623	WO2015US66539	20151218

Priority:

US20140094582P 20141219

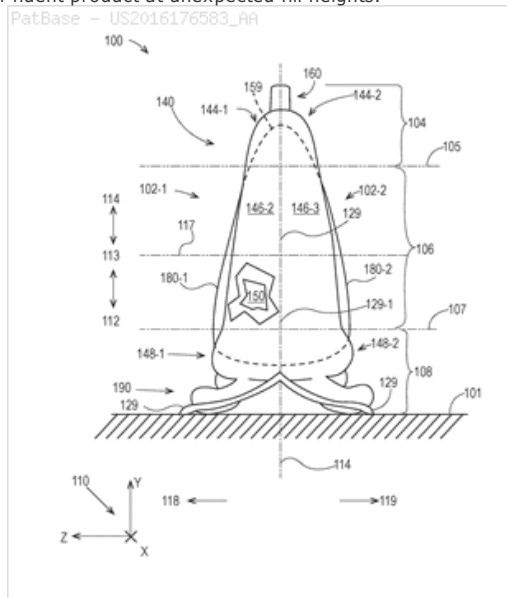
US20140094615P 20141219

US20150973827 20151218

WO2015US66539 20151218

Probable Assignee: PROCTER AND GAMBLE CO**Assignee(s):** (std): PROCTER AND GAMBLE**Assignee(s):** LESTER JOSEPH CRAIG ; MCGUIRE KENNETH STEPHEN ; STANLEY SCOTT KENDYL ; ISHIHARA TADAYOSHI ; YOU JUN ; ARENT LEE MATHEW ; BERG CHARLES JOHN JR ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; PROCTER AND GAMBLE CO**Inventor(s):** (std): ARENT LEE MATHEW ; BENJAMIN JACOB CLARE ; BERG CHARLES JOHN JR ; BERG JR CHARLES JOHN ; BOURGEOIS MARC RICHARD ; CHARLES JOHN BERG JR ; CLARE BENJAMIN JACOB ; ISHIHARA TADAYOSHI ; JOSEPH CRAIG LESTER ; JUN YOU ; KENNETH STEPHEN MCGUIRE ; LEE MATHEW ARENT ; LESTER JOSEPH CRAIG ; MARC RICHARD BOURGEOIS ; MCGUIRE KENNETH STEPHEN ; SCOTT KENDYL STANLEY ; STANLEY SCOTT KENDYL ; TADAYOSHI ISHIHARA ; YOU JUN**Agent(s):** KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; TANI AND ABE PC; KREBS JAY A**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**Title:** FLEXIBLE CONTAINERS WITH EASILY VARIABLE SIZING**Abstract:** Non-durable self-supporting flexible containers with easily variable sizing. Line ups of flexible containers have similar sizes, shapes, and constructions, but hold differing amounts of fluent product at unexpected fill heights.**Classifications:****International (IPC 8-9):** B65B3/04 B65D33/02 B65D35/02

B65D75/00 (Advanced/Invention)

International (IPC 1-7): B65D75/00**CPC:** B65D35/02 B65B3/04 B65D33/02 B65D2203/00 B65D75/008**US:** 53/452

Family:

Publication number	Publication date	Application number	Application date
BR112017012815 A2	20180102	BR20171112815	20151218
BR112017012815 A2	20180703	BR20171112815	20151218
CN107108094 A	20170829	CN201580069418	20151218
EP3233662 A1	20171025	EP20150823281	20151218
US2016176583 AA	20160623	US20150973835	20151218
WO16100759 A1	20160623	WO2015US66540	20151218

Priority:

US20140094635P 20141219 US20150973835 20151218 WO2015US66540 20151218

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): ARENT JR LEE MATHEW ; ARENT LEE MATHEW ; BERG CHARLES JOHN JR ; BERG JR CHARLES JOHN ; BOURGEOIS MARC RICHARD ; BROAD GAVIN JOHN ; CLARE BENJAMIN JACOB ; GAVIN JOHN BROAD ; GIACHETTO RICHARD MATTHEW ; ISHIHARA TADAYOSHI ; JOSEPH CRAIG LESTER ; JUN YOU ; KENNETH STEPHEN MCGUIRE ; LEE MATHEW ARENT ; LESTER JOSEPH CRAIG ; MARC RICHARD BOURGEOIS ; MCGUIRE KENNETH STEPHEN ; RICHARD MATTHEW GIACHETTO ; SCOTT KENDYL STANLEY ; STANLEY SCOTT KENDYL ; TADAYOSHI ISHIHARA ; YOU JUN ; CHARLES JOHN BERG JR ; BENJAMIN JACOB CLARE

Agent(s): HOYNG ROKH MONEGIER LLP; KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

157) Family number: 32660432 (US2006045942A)

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Title: METHOD AND SYSTEM FOR IN-CUP DISPENSING, MIXING AND FOAMING HOT AND COLD BEVERAGES FROM LIQUID CONCENTRATES

Abstract: Liquid food dispensing device (1) for dispensing hot or cold beverages or other liquid foods without using any mixing or whipping chambers comprising at least one liquid component source (30, 31) and a diluent source (18), a delivery device and at least one diluent nozzle and one food component nozzle wherein the delivery device and diluent and food component nozzles are configured for ejecting at least one stream (6 a, 6 b) of diluent at a predetermined spatial configuration inside a container (10) and within a velocity range effective to create turbulence and mix the food component so to produce the food product such as the hot or cold beverage.

Classifications:

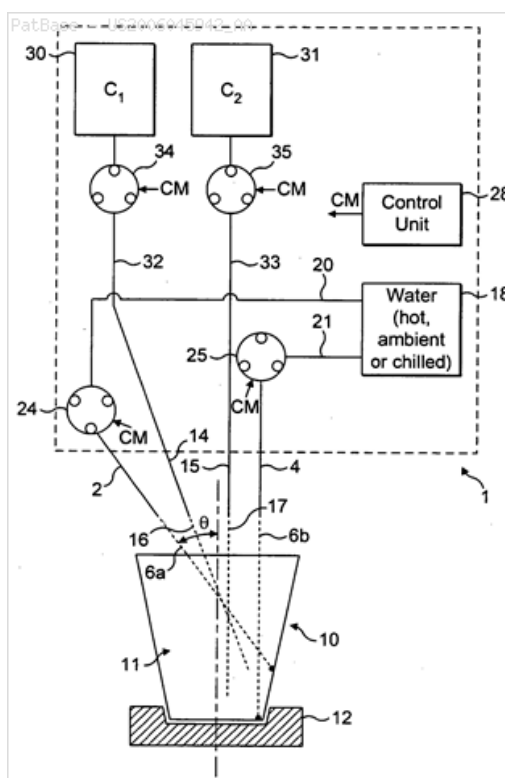
International (IPC 8-9): A23L2/00 A47J A47J31/10 A47J31/40 A47J31/44 A47J31/46 B65D81/32 B67D B67D1/00 B67D1/12 B67D5/56 B67D7/74 (Advanced/Invention); A47J31/40 A47J31/46 B65D81/32 B67D1/00 (Advanced/Non-invention); A47J31/40 A47J31/44 A47J31/46 B65D81/32 B67D1/00 B67D7/74 (Core/Invention)

International (IPC 1-7): A47J31/46 B67D1/00

CPC: B67D1/0021 B67D1/0051 B67D1/0053

European: B67D1/00F4 B67D1/00H2C B67D1/00H2C4

US: 222/129 222/129.1 222/129.100P 222/145.5 222/145.6 222/214 426/115 426/115P 99/275 99/287 99/300 99/323.1

**Family:**

Publication number	Publication date	Application number	Application date
AU2005279426 AA	20060309	AU20050279426	20050819
AU2005279426 BB	20101118	AU20050279426	20050819
BRPI0515123 A	20080708	BR2005PI15123	20050819
CA2577849 AA	20070221	CA20052577849	20050819
CA2577849 C	20130430	CA20052577849	20050819
CN100592889 C	20100303	CN200580036415	20050819
CN101048096 A	20071003	CN200580036415	20050819
EP1788917 A2	20070530	EP20050777318	20050819

HK1108605 A1	20080516	HK20070112280	20071109
HK1108605 A3	20080516	HK20070112280	20071109
IN01980DN2007 A	20070817	IN2007DN01980	20070314
JP2008511353 T2	20080417	JP20070528702T	20050819
JP4990141 B2	20120801	JP20070528702	20050819
KR20070059129 A	20070611	KR20077007446	20070330
MX2007002492 A1	20070511	MX20070002492	20050819
NZ553401 A	20101126	NZ20050553401	20050819
RU2007111913 A	20081127	RU20070111913	20050819
RU2378969 C2	20100120	RU20070111913	20050819
TH80010 A	20060914	TH20051004039	20050829
US2006045942 AA	20060302	US20040930663	20040831
US2008093382 AA	20080424	US20050574292	20050819
US7661352 BB	20100216	US20040930663	20040831
WO06024409 A2	20060309	WO2005EP08989	20050819
WO06024409 A3	20060706	WO2005EP08989	20050819

Priority:

US20040930663 20040831 US20050574292 20050819 WO2005EP08989 20050819

Probable Assignee: NESTEC SA

Assignee(s): (std): BARTOLETTI LARRY ; BAUTISTA DERRICK A ; CHRISMAN RANDALL C ; LIVINGS SIMON ; LIVINGS SIMON J ; SHER ALEXANDER A ; NESTEC SA ; NESTEK S A ; NESTEK SA

Assignee(s): NESTEC S A

Inventor(s): (std): BARTOLETTI LARRY ; BARTOLETTI LEHRRI ; BAUTISTA DERRICK A ; BAUTISTA DERRICK ABILAY ; BAUTISTA DERRIK A ; CHRISMAN RANDALL C ; KRISMEHN REHNDALL K ; LAJVINGS SIMON ; LARRY BARTOLETTI ; LIVINGS SIMON ; LIVINGS SIMON J ; SHER ALEKSANDR A ; SHER ALEXANDER A ; SHER ALEXANDER A BAUTISTA DERR ; SIMON LIVINGS

Inventor(s): SHER ALEXANDER ; RANDALL C CHRISMAN ; DERRICK A BAUTISTA ; CHRISMAN RANDALL ; BAUTISTA DERRICK ; ALEXANDER A SHER

Agent(s): SHELSTON IP PTY LTD ; SHELSTON IP ; BORDEN LADNER GERVAIS LLP ; ZHONGZI IP ; BELL BOYD AND LLOYD LLC ; BELL BOYD AND LLOYD LLP ; K AND L GATES LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

158) Family number: 62728433 (US2016176584A)

© PatBase

Title: FLEXIBLE CONTAINERS WITH EASILY VARIABLE SIZING

Abstract: Non-durable self-supporting flexible containers with easily variable sizing. Line ups of flexible containers have similar sizes, shapes, and constructions, but hold differing amounts of fluent product at unexpected fill heights.

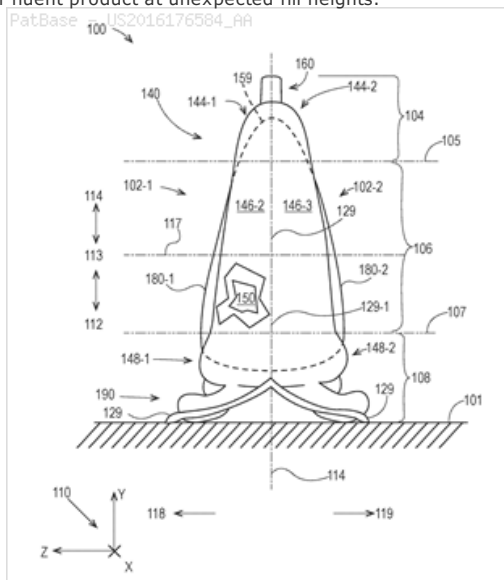
Classifications:

International (IPC 8-9): B31B43/00 B31B50/59 B65D35/02

B65D75/00 (Advanced/Invention)

CPC: B65D35/02 B65D2203/00 B65D75/008 B31B50/59

US: 493/243



Family:

Publication number	Publication date	Application number	Application date
CN107108096 A	20170829	CN201580069569	20151218
US2016176584 AA	20160623	US20150973852	20151218
WO16100761 A1	20160623	WO2015US66542	20151218

Priority:

US20140094665P 20141219 US20150973852 20151218 WO2015US66542 20151218

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): ARENT JR LEE MATHEW ; ARENT LEE MATHEW ; BERG CHARLES JOHN JR ; BERG JR CHARLES JOHN ; BOURGEOIS MARC RICHARD ; BROAD GAVIN JOHN ; CLARE BENJAMIN JACOB ; GIACHETTO RICHARD

MATTHEW ; ISHIHARA TADAYOSHI ; LESTER JOSEPH CRAIG ; MCGUIRE KENNETH STEPHEN ; STANLEY SCOTT KENDYL ; YOU JUN

Agent(s): KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

159) Family number: 63934437 (US2016325518A)

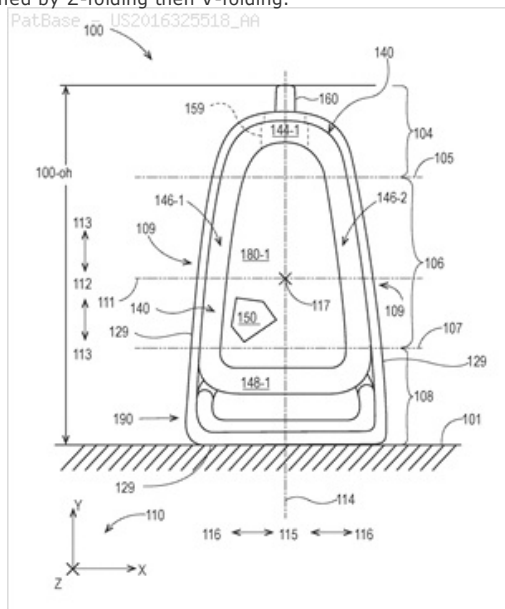
© PatBase

Title: METHODS OF FORMING FLEXIBLE CONTAINERS WITH GUSSETS

Abstract: Methods of forming flexible containers having gussets formed by Z-folding then V-folding.

Classifications:

International (IPC 8-9): B31B1/36 B31B155/00 B31B160/20 B31B170/20 B31B37/00 B31B50/00 B31B70/00 B31B70/26 B31B70/36 B31B70/74 B65D30/20 B65D75/00 (Advanced/Invention); B31B155/00 B31B160/20 B31B170/20 (Advanced/Non-invention)
CPC: B65D31/10 B31B50/00 B31B70/00 B31B70/266 B31B70/36 B31B2155/00 B31B2160/20 B31B2170/20 B65D75/008
US: 493/243



Family:

Publication number	Publication date	Application number	Application date
BR112017023687 A2	20180717	BR20171123687	20160503
CA2983340 AA	20171018	CA20162983340	20160503
CN107635880 A	20180126	CN201680026324	20160503
EP3291978 A1	20180314	EP20160721613	20160503
JP2018514421 T2	20180607	JP20170557953T	20160503
KR20170133496 A	20171205	KR20177032001	20160503
MX2017014200 A1	20180405	MX20170014200	20160503
US2016325518 AA	20161110	US20160148395	20160506
WO16179135 A1	20161110	WO2016US30498	20160503

Priority:

US20150157766P 20150506 WO2016US30498 20160503 US20160148395 20160506

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): KALEIDOSCOPE INC ; RAPACH ANDRE PAUL ; LESTER JOSEPH CRAIG ; MCGUIRE KENNETH STEPHEN ; GUNNERSON KORY ADAM ; ISHIHARA TADAYOSHI ; STANLEY SCOTT KENDYL ; YOU JUN ; RAPACH ANDREW PAUL ; ARENT LEE MATHEW ; BERG CHARLES JOHN JR ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; PROCTER AND GAMBLE CO

Inventor(s): (std): ANDREW PAUL RAPACH ; ARENT LEE MATHEW ; BENJAMIN JACOB CLARE ; BERG JR CHARLES JOHN ; CHARLES JOHN BERG JR ; JOSEPH CRAIG LESTER ; JUN YOU ; KENNETH STEPHEN MCGUIRE ; KORY ADAM GUNNERSON ; LEE MATTHEW ARENT ; LESTER JOSEPH CRAIG ; MARC RICHARD BOURGEOIS ; MCGUIRE KENNETH STEPHEN ; RAPACH ANDRE PAUL ; RAPACH ANDREW PAUL ; SCOTT KENDYL STANLEY ; STANLEY SCOTT KENDYL ; TADAYOSHI ISHIHARA ; YOU JUN ; ISHIHARA TADAYOSHI ; GUNNERSON KORY ADAM ; CLARE BENJAMIN JACOB ; BOURGEOIS MARC RICHARD ; BERG CHARLES JOHN JR ; ARENT LEE MATTHEW

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; TANI AND ABE PC; KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

160) Family number: 62728440 (US2016176597A)

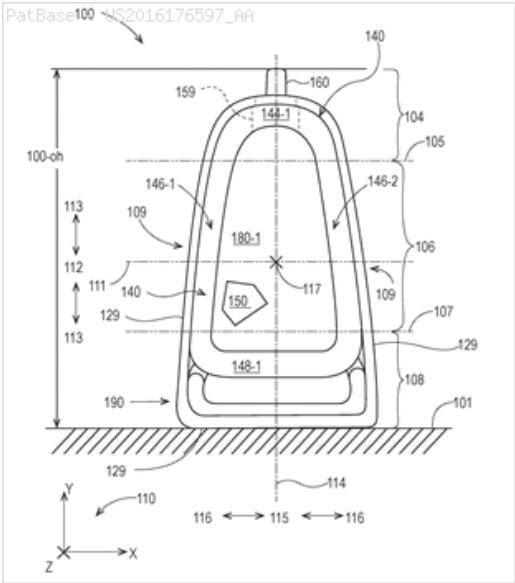
© PatBase

Title: FLEXIBLE CONTAINERS WITH EASILY VARIABLE SIZING

Abstract: Non-durable self-supporting flexible containers with easily variable sizing. Line ups of flexible containers have similar sizes, shapes, and constructions, but hold differing amounts of fluent product at unexpected fill heights.

Classifications:

International (IPC 8-9): B31B29/00 B31B70/00
B65D75/00 (Advanced/Invention)
International (IPC 1-7): B65D75/00
CPC: B65D75/008 B31B70/00 B31B2150/00 B31B2160/20
US: 493/243



Family:

Publication number	Publication date	Application number	Application date
BR112017012790 A2	20180102	BR20171112790	20151218
CN107000912 A	20170801	CN201580068419	20151218
CN107000912 B	20181204	CN201580068419	20151218
EP3233664 A1	20171025	EP20150828715	20151218
US2016176597 AA	20160623	US20150973838	20151218
US2018079574 AA	20180322	US20170826941	20171130
WO16100760 A1	20160623	WO2015US66541	20151218

Priority:

US20140094651P 20141219 US20150973838 20151218 WO2015US66541 20151218
US20170826941 20171130

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): P AND G CORP ; PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): ARENT JR LEE MATHEW ; ARENT LEE MATHEW ; BENJAMIN JACOB CLARE ; BERG CHARLES JOHN JR ; BERG JR CHARLES JOHN ; BOURGEOIS MARC RCHARD ; BOURGEOIS MARC RICHARD ; BROAD GAVIN JOHN ; BROAD GAVN JOHN ; CHARLES JOHN BERG JR ; CLARE BENJAMIN JACOB ; CLARE BENJAMN JACOB ; GAVIN JOHN BROAD ; GIACHETTO RCHARD MATTHEW ; GIACHETTO RICHARD MATTHEW ; ISHIHARA TADAYOSH ; ISHIHARA TADAYOSHI ; JOSEPH CRAIG LESTER ; JUN YOU ; KENNETH STEPHEN MCGUIRE ; LEE MATHEW ARENT ; LESTER JOSEPH CRAG ; LESTER JOSEPH CRAIG ; MARC RICHARD BOURGEOIS ; MCGUIRE KENNETH STEPHEN ; RICHARD MATTHEW GIACHETTO ; SCOTT KENDYL STANLEY ; STANLEY SCOTT KENDYL ; TADAYOSHI ISHIHARA ; YOU JUN

Agent(s): HOYNG ROKH MONEGIER LLP; KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

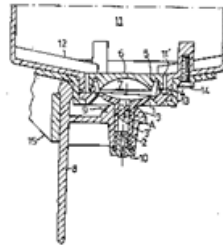
161) Family number: 3635440 (US4609130A) © PatBase

Title: Arrangement in liquid dispensers

Abstract: The invention relates to a diaphragm pump for dispensing or metering purposes, for example for use in liquid soap dispensers. The pressure chamber (7) of the pump is defined by a fixed wall (6) and the diaphragm (1). A check-valve on the inlet side towards a storage vessel (11) forms a cylindrical flange (4) movable in a groove (5) and sealing against the outer surface thereof. Arranged in a spout (2) passing through the diaphragm is an oblique groove (3), which is slotted through a short distance around its periphery, thereby to form a seal against the suction of air into the pressure chamber (7). The diaphragm (1) is arranged to be compressed by a pressure body (9) provided on a lever (8).

Classifications:

International (IPC 8-9): A47K5/12 B65D47/34
B65D83/06 (Advanced/Invention);
A47K5/00 B65D47/34 (Core/Invention)
International (IPC 1-7): A47K5/12 B65D37/00 B65D83/06
CPC: A47K5/1208
European: A47K5/12C2
US: 222/207 222/214

**Family:**

Publication number	Publication date	Application number	Application date
AT25920 E	19870415	AT19840850242T	19840814
CA1247566 A1	19881228	CA19840461271	19840817
DE3462655 D1	19870423	DE19843462655	19840814
DK115184 A	19850220	DK19840001151	19840228
DK115184 A0	19840228	DK19840001151	19840228
DK157656 B	19900205	DK19840001151	19840228
DK157656 C	19900625	DK19840001151	19840228
EP0134771 A2	19850320	EP19840850242	19840814
EP0134771 A3	19850605	EP19840850242	19840814
EP0134771 B1	19870318	EP19840850242	19840814
SE454940 B	19880613	SE19830004514	19830819
SE454940 C	19880922	SE19830004514	19830819
SE8304514 A	19850220	SE19830004514D	19830819
SE8304514 A0	19830819	SE19830004514	19830819
SE8304514 L	19850220	SE19830004514	19830819
US4609130 A	19860902	US19840642069	19840817

Priority:

SE19830004514 19830819 EP19840850242 19840814 CA19840461271 19840817

Probable Assignee: PLUM KEMI PROD

Assignee(s): (std): PLUM KEMI PROD ; PLUM KEMI PRODUKTION A S ; PLUM KEMI PRODUKTION AS

Assignee(s): KATVA ILMARI ; PLUM KEMI PRODUKTION A S OSTERGADE

Inventor(s): (std): KATVA ILMARI ; KATVA I

Inventor(s): I KATVA ; ILMARI KATVA

Agent(s): G RONALD BELL AND ASSOCIATES

Designated states: AT DE FR GB

162) Family number: 28692441 (US2002092329A)

© PatBase

Title: EQUIPMENT WASHER

Abstract: A washing machine includes a frame, a tub rigidly mounted to the frame, and at least one basket rotatably mounted inside the tub. The basket is an open-lattice sided container having a releasably closable lid. The basket is adapted for holding articles of apparel or other flexible articles substantially stationary relative to the basket as the basket is rotated relative to the tub. A water supply cooperates with the tub for washing and rinsing the articles held in the basket.

Classifications:

International (IPC 8-9): B08B3/06 D06F25/00 D06F37/00 D06F37/04 D06F37/08 D06F58/04 D06F95/00 (Advanced/Invention);

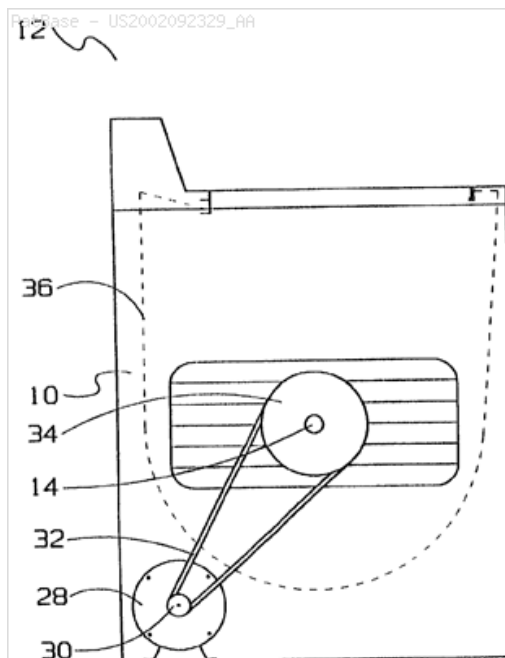
B08B3/06 D06F25/00 D06F37/00 D06F58/04 (Core/Invention)

International (IPC 1-7): B08B3/06 D06F23/02 D06F25/00 D06F29/00 D06F33/00 D06F35/00 D06F37/00 D06F37/02 D06F37/04 D06F58/04

CPC: Y10T24/1931 D06F37/08 D06F58/04 D06F95/006

European: D06F37/08 D06F58/04 D06F95/00B2B

US: 24/142 24/143 24/58 68/12.01 68/12.010S 68/142 68/143 68/148 68/148S 68/152 68/152S 68/20 68/200 68/23 68/23.00RP 68/23.00RS 68/23R 68/24 68/24P 68/58 8/158 8/158P 8/159 8/159P



Family:

Publication number	Publication date	Application number	Application date
AU2000273972 AA	20020402	AU20000273972	20000925
AU200073972 A1	20020402	AU20000073972	20000925
AU200073972 A5	20020402	AU20000073972D	20000925
CA2280341 AA	20000218	CA19992280341	19990818
CA2280341 C	20030506	CA19992280341	19990818
US2002092329 AA	20020718	US20020098466	20020318
US2004089030 AA	20040513	US20030699842	20031104
US2004231063 AA	20041125	US20040880479	20040701
US2005193500 AA	20050908	US20050123187	20050506
US6374644 BA	20020423	US19990376319	19990818
US6732553 BB	20040511	US20020098466	20020318
WO0225000 A1	20020328	WO2000CA01074	20000925

Priority:

US19980096841P 19980818	CA19992280341 19990818	US19990376319 19990818
WO2000CA01074 20000925	US20020098466 20020318	US20030699842 20031104
US20040880479 20040701	US20050123187 20050506	

Probable Assignee: ESPORTA WASH SYSTEMS INC

Assignee(s): (std): E SPORTA WASH SYSTEMS INC ; ESPORTA WASH SYSTEMS INC ; SPORTA WASH SYSTEMS INC E ; RHODE RANDALL J ; SPORTRA WASH SYSTEMS INC E

Assignee(s): RHODE MARGIE A ; INT SUPPLIERS AND CONTRACTORS INC ; E SPORTRA WASH SYSTEMS INC

Inventor(s): (std): RHODE MARGIE A ; RHODE RANDALL J

Inventor(s): RANDALL J RHODE ; RHODE RANDALL ; RHODE MARGIE

Agent(s): D IORIO HELENE; ANTONY C EDWARDS

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

163) Family number: 4885441 (US4548340A)

© PatBase

Title: Flush-mounted liquid dispenser

Abstract: A liquid dispenser for flush-mounting in a wall includes a faceplate with front and back surfaces and inlet and outlet openings. A liquid reservoir is attached to and extends rearwardly from the faceplate back surface. A fill spout communicates with the reservoir through the inlet opening and a plunger-type pump communicates with the reservoir through the outlet opening. The fill spout and the pump extend forwardly from the faceplate front surface. The faceplate is adapted for attachment to the wall with the reservoir positioned substantially within the wall.

Classifications:

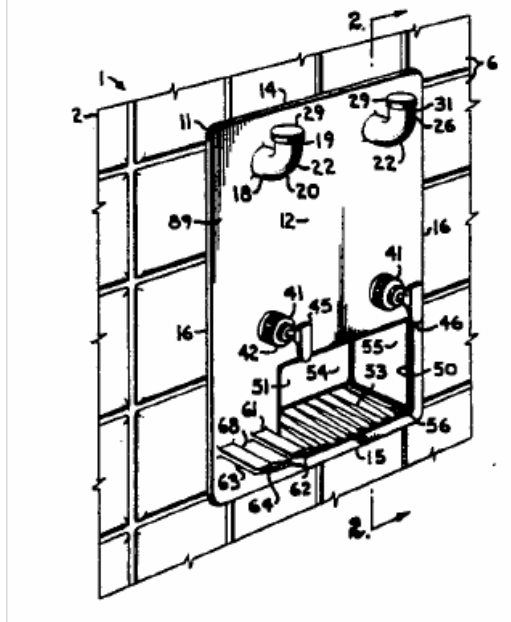
International (IPC 8-9): A47K5/12 (Advanced/Invention); A47K5/00 (Core/Invention)

International (IPC 1-7): B67D5/52

CPC: A47K5/1204

European: A47K5/12C1

US: 222/135 222/181 222/181.2 222/192 4/191 4/559 4/605 D6/527

**Family:**

Publication number	Publication date	Application number	Application date
US4548340 A	19851022	US19840598496	19840409

Priority:

US19840598496 19840409

Probable Assignee:

MESSER CHARLES L

Assignee(s): (std):

MESSER CHARLES L

Inventor(s): (std):

MESSER CHARLES L

164) Family number: 60886443 (US2012185267A)

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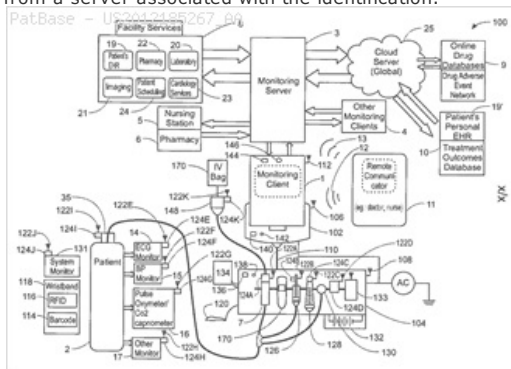
Title: SYSTEM, METHOD, AND APPARATUS FOR ELECTRONIC PATIENT CARE

Abstract: A system for electronic patient care includes a hub. The hub is configured to monitor a patient-care device. The sandbox may be configured to control access to at least one of a hardware resource and a software resource. The hub is further configured to identify the patient-care device and execute an application to monitor the patient-care device. The hub executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component. The hub may be further configured to control the patient-care device. The hub may be further configured to receive an identification from the patient-care device and download the application from a server associated with the identification. The hub may be further configured to receive an identification from the patient-care device and update the application from a server associated with the identification.

Classifications:**International (IPC 8-9):** G06Q50/22 (Advanced/Invention)**CPC:** G06Q50/22 A61M5/1413 A61M5/1415 A61M5/1417 A61M5/142

A61M5/16827 A61M2205/3553 A61M2205/3561 A61M2205/3569

A61M2205/3584 A61M2205/6009 G06F19/3418 G06F19/3468

US: 705/2**Family:**

Publication number	Publication date	Application number	Application date
US2012185267 AA	20120719	US20110333574	20111221

Priority:

US20100297544P 20100122

US20110011543 20110121

US20110333574 20111221

Probable Assignee: DEKA PRODUCTS PARTNERSHIP LTD

Assignee(s): (std): DEKA PRODUCTS LP ; KARWIN JOHN M ; KAMEN DEAN ; SCARPATI JACOB W ; TURNER JAMES G ; BALLANTYNE TODD A ; BLASI JOHN J

Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s): (std): BALLANTYNE TODD A ; BLASI JOHN J ; KARWIN JOHN M ; SCARPATI JACOB W ; KAMEN DEAN ; TURNER JAMES G

Title: DEVICE FOR DISPENSING A LIQUID

Abstract: The invention concerns a device (3) for dispensing a liquid, the device being connectable to a container (4) containing the liquid and detachably connectable to a base station (5) having drive means (524), the device (3) comprising a liquid duct (69) and means (6) actuated by drive means (524) for effecting passage of liquid through the duct (69), characterized in that the device (3) comprises a cutter (101) for piercing a tamper resistant foil (41) positioned across the outlet of the container (4) and that means (103) for actuating the cutter are operable from outside the device (3).

Classifications:

International (IPC 8-9): B67D1/00 B67D1/08 B67D1/12

B67D3/00 (Advanced/Invention);

B67D1/00 B67D1/08 B67D3/00 (Core/Invention)

International (IPC 1-7): B67D1/08

CPC: B67B7/28 B67D1/0007 B67D1/0037 B67D1/0044 B67D1/0046

B67D1/0079 B67D1/0847 B67D1/10 B67D1/1275 B67D2001/0811

B67D2001/0817

European: B67B7/28 B67D1/00E2B4 B67D1/00F4B6B4

B67D1/00H2B B67D1/00H2B4 B67D1/00H6B B67D1/08B6H

B67D1/10 B67D1/12L4 L67D1/08A30 L67D1/08A32B4

US: 222/129.1 222/185.1 222/325 222/333 222/481.5 222/82

222/82P 222/83

PatBase - US2010193544_AA

Parent Application Publications Aug. 5, 2010 Sheet 1 of 30 US 2010/0193544 A1

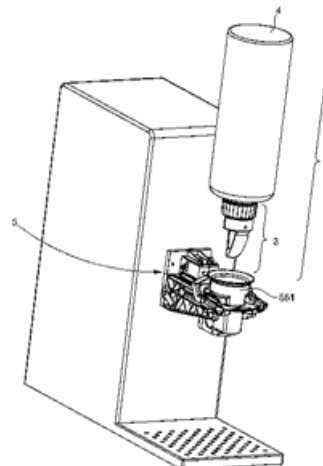


Fig. 1A

Family:

Publication number	Publication date	Application number	Application date
AT481353 E	20101015	AT20070014191T	20070719
CN101801836 A	20100811	CN200880107524	20080708
CN101801836 B	20130904	CN200880107524	20080708
DE602007009214 D1	20101028	DE200760009214T	20070719
EP2017220 A1	20090121	EP20070014191	20070719
EP2017220 B1	20100915	EP20070014191	20070719
ES2349438 T3	20110103	ES20070014191T	20070719
TH98439 A	20090924	TH20081003749	20080716
TW200909333 A	20090301	TW20080126808	20080715
US2010193544 AA	20100805	US20080669737	20080708
US8820577 BB	20140902	US20080669737	20080708
WO09010418 A2	20090122	WO2008EP58827	20080708
WO09010418 A3	20090312	WO2008EP58827	20080708

Priority:

EP20070014191 20070719 WO2008EP58827 20080708

Probable Assignee: SMIXIN SA

Assignee(s): (std): BHALERAO AMOL ASHOK ; BITMEAD NAOMI ; COOPER GARY ; GUILLEMAIN BERNARD ; HERRICK JAMES PETER ; NESTEC LTD ; NESTEC SA ; RUSCH CHRISTOPH ; KLOPFENSTEIN ANDRE ; MORRISON RANDALL L ; MOCK ELMAR

Assignee(s): SMIXIN SA ; NESTEC S A

Inventor(s): (std): ANDRE KLOPFENSTEIN ; ASHOK BHALERAO AMOL ; BERNARD GUILLEMAIN ; CHRISTOPH RUSCH ; COOPER GARY ; ELMAR MOCK ; RUSCH CHRISTOPHE ; MORRISON RANDALL L ; MOCK ELMAR ; KLOPFENSTEIN ANDRE ; HERRICK JAMES PETER ; GUILLEMAIN BERNARD ; BITMEAD NAOMI ; BHALERAO AMOL ASHOK ; NAOMI BITMEAD ; PETER HERRICK JAMES ; RUSCH CHRISTOPH ; KLOPFENSTEIN ANDRE

Inventor(s): HERRICK JAMES PETER AND

Agent(s): RAVENEL THIERRY GERARD LOUIS ET AL; RAVENEL THIERRY GERARD LOUIS; K AND L GATES LLP; DUCREUX MARIE

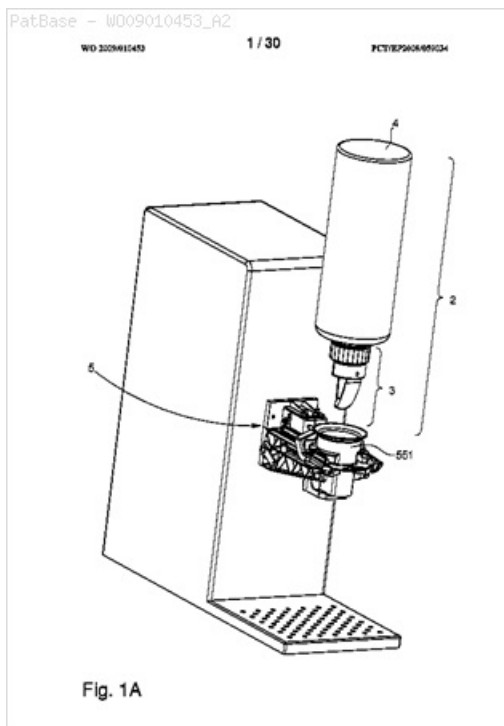
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Title: DEVICE FOR DISPENSING A LIQUID

Abstract: The invention concerns Device (3) for dispensing a liquid, the device being connectable to a container (4) containing the liquid and detachably connectable to a base station (5) having drive means, the device (3) comprising a liquid duct (69) leading from the container (4) to an outlet (85, 85A) and means (6) for effecting passage of liquid through the duct (69), characterized in that the device comprises an outer cover (301) closing the outlet (85, 85A), the cover (301) being openable so that the outlet (85, 85A) is opened when the device (3) is connected to base station (5), and reclosable.

Classifications:

International (IPC 8-9): B67D1/00 B67D1/12 (Advanced/Invention); B67D1/00 B67D1/08 (Core/Invention)
International (IPC 1-7): B67D1/08
CPC: B67D1/0007 B67D1/0037 B67D1/0044 B67D1/0046 B67D1/0079 B67D1/10 B67D1/1275 B67D2001/0811 B67D2001/0817
European: B67D1/00E2B4 B67D1/00F4B6B4 B67D1/00H2B B67D1/00H2B4 B67D1/00H6B B67D1/10 B67D1/12L4 L67D1/08A30 L67D1/08A32B4



Family:

Publication number	Publication date	Application number	Application date
EP2017221 A1	20090121	EP20070014192	20070719
TH98623 A	20091012	TH20081003747	20080716
TW200909334 A	20090301	TW20080127527	20080718
WO09010453 A2	20090122	WO2008EP59034	20080710
WO09010453 A3	20090312	WO2008EP59034	20080710

Priority:

EP20070014192 20070719

Probable Assignee: NESTEC LTD

Assignee(s): (std): BHALERAO AMOL ASHOK ; BITMEAD NAOMI ; GUILLEMAIN BERNARD ; HERRICK JAMES PETER ; KLOPFENSTEIN ANDRE ; NESTEC LTD ; NESTEC SA ; RUSCH CHRISTOPH ; MORRISON RANDALL L ; MOCK ELMAR

Assignee(s): NESTEC S A

Inventor(s): (std): RUSCH CHRISTOPHE ; MORRISON RANDALL L ; MOCK ELMAR ; KLOPFENSTEIN ANDRE ; HERRICK JAMES PETER ; GUILLEMAIN BERNARD ; BITMEAD NAOMI ; BHALERAO AMOL ASHOK ; RUSCH CHRISTOPH

Inventor(s): HERRICK JAMES PETER AND

Agent(s): RAVENEL THIERRY GERARD LOUIS ET AL; DUCREUX MARIE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

167) Family number: 28620450 (WO9304621A1)

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Title: DISPENSER OF DOSES OF LIQUID SOAP OR THE LIKE

Abstract: Source: WO9304621A1 [FR] Un distributeur (1) de doses de savon liquide, de shampoing ou de liquide similaire, comporte une cartouche de recharge interchangeable comportant un reservoir de liquide (5) relie a un dispositif de prelevement (25) et retenu, de maniere liberable, dans un support (2). Le liquide peut etre preleve du reservoir (5) au moyen d'une soupape de decharge (26) se fermant automatiquement et faisant partie du dispositif de prelevement (25). Pour satisfaire, en particulier, a de hautes exigences en matiere d'hygiene, le reservoir (5) du distributeur de doses (1) est, au moins dans une zone partielle de sa paroi, elastique, a nu et compressible, et la soupape de decharge (26) peut etre ouverte par une pression exercee sur la paroi dudit reservoir (5).

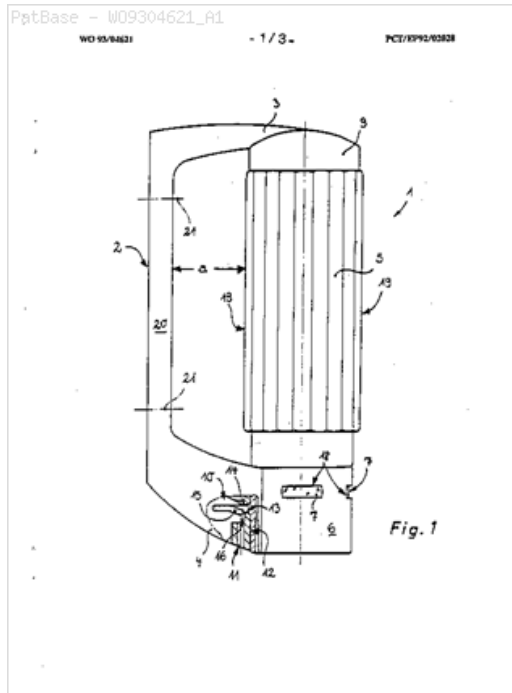
Classifications:

International (IPC 8-9): A47K5/122 B65D47/20 (Advanced/Invention); A47K5/00 B65D47/04 (Core/Invention)

International (IPC 1-7): A47K A47K5/12 A47K5/122 B65D B65D47/20

CPC: A47K5/122 B65D47/2062

European: A47K5/122 B65D47/20E4A



Family:

Publication number	Publication date	Application number	Application date
AT123393 E	19950615	AT19920115041T	19920903
CA2125160 AA	19940603	CA19922125160	19920903
CA2125160 C	20010703	CA19922125160	19920903
DE4129717 A1	19930311	DE19914129717	19910906
DE4129717 C2	19951026	DE19914129717	19910906
DE59202445 D1	19950713	DE19925002445	19920903
EP0530789 A1	19930310	EP19920115041	19920903
EP0530789 B1	19950607	EP19920115041	19920903
ES2074779 T3	19950916	ES19920115041T	19920903
HK1006671 A1	19990312	HK19980106085	19980623
WO9304621 A1	19930318	WO1992EP02028	19920903

Priority:

DE19914129717 19910906 DE19925002445 19920903 WO1992EP02028 19920903

Probable Assignee: ADA HOTELCOSMETIC GMBH

Assignee(s): (std): ADA HOTELCOSMETIC GMBH

Assignee(s): ADA HOTELCOSMETIC GMBH 7640 KEHL DE ; ADA HOTELCOSMETIC GMBH 77694 KEHL DE ; FEIGENBAUM ROBERT

Inventor(s): (std): FEIGENBAUM ROBERT ; ROBERT FEIGENBAUM

Inventor(s): VERZICHT DES ERFINDERS AUF NENNUNG ; FEIGENBAUM ROBERT W 7606 NEURIED DE

Agent(s): FETHERSTONHAUGH AND CO

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE US

168) Family number: 47547452 (US2010286791A)

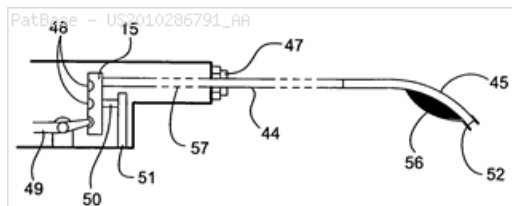
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Title: INTEGRATED SYSTEM FOR THE BALLISTIC AND NONBALLISTIC INFIXION AND RETRIEVAL OF IMPLANTS

Abstract: Provided are methods and apparatus for the use of magnetic traction to maintain the patency of a tubular anatomical structure, whether a vessel, duct, the trachea, bronchus, bile duct, ureter, vas deferens, fallopian tube, or portions of the digestive tract, as to constitute means for extraluminal stenting. An extraluminal stent consists of a perimedial or medial intravascular and an extravascular component. The intravascular component consists of ferromagnetic spherules implanted aeroballistically or stays implanted by means of a special hand tool, while the extravascular component consists of a pliant jacket or mantle that has magnets mounted about its outer surface. A catheter adapted for use as the barrel of a gas-operated implant insertion gun is so devised that it can be used independently to perform an angioplasty and thereafter have its free or extracorporeal end inserted into the airgun to initiate implantation of the intravascular component without the need for withdrawal and reinsertion through the introducer sheath. When the implants must be spaced too closely together to be controlled by hand, a positional control system is used to effect discharge automatically. Spherules that consist entirely of medication or that have a radiation emitting seed as the core can be implanted with the same apparatus. A glossary of terms follows the specification.

Classifications:

International (IPC 8-9): A61B17/28 A61B17/50 A61B18/04 A61F13/00 A61F2/04 A61F2/82 A61F2/95 A61M25/00 A61M31/00 A61M36/12 A61M37/00 (Advanced/Invention)
CPC: A61F2/95 A61M37/00 A61B17/12022 A61B17/00491 A61B17/0057 A61B17/12118 A61B17/12181 A61B17/3468 A61B18/04 A61B18/18 A61B2017/00411 A61B2017/00544 A61B2017/0065 A61B2017/00876 A61B2017/1205 A61B2017/22001 A61B2017/00809 A61F2210/009 A61F2/82 A61F2/013 A61F2002/9528 A61B18/02 A61B18/1492 A61B2018/00023 A61B2018/00345 A61B2018/00517 A61B2018/00541 A61B2018/00595 A61B2018/00982 A61B2218/002 A61N2005/1011 A61B18/245 A61B2018/00005 A61B2018/00577 A61B2018/1861 A61N7/00
European: A61B17/12P A61B17/12P5B1S A61B17/12P7Z K61B17/00N4 K61B17/00S14 K61B17/12P2 K61B17/22A K61B17/34J K61B18/04 K61B18/18



US: 600/8 600/8S 602/43 602/43S 604/500 604/523 604/523S 604/524 604/524S 604/93.01 604/93.010S 606/205 606/205S 606/211 606/211S 606/27 606/27S 623/1.11 623/23.7 623/23.700P

Family:

Publication number	Publication date	Application number	Application date
US2010286791 AA	20101111	US20070986021	20071119
US2014163664 AA	20140612	US20130694835	20130109

Priority:

US20060860392P 20061121 US20070986021 20071119 US20130694835 20130109

Probable Assignee: GOLDSMITH DAVID S

Assignee(s): (std): GOLDSMITH DAVID S

Inventor(s): (std): GOLDSMITH DAVID S

Agent(s): DAVID S GOLDSMITH

169) Family number: 50623453 (US2012035556A)

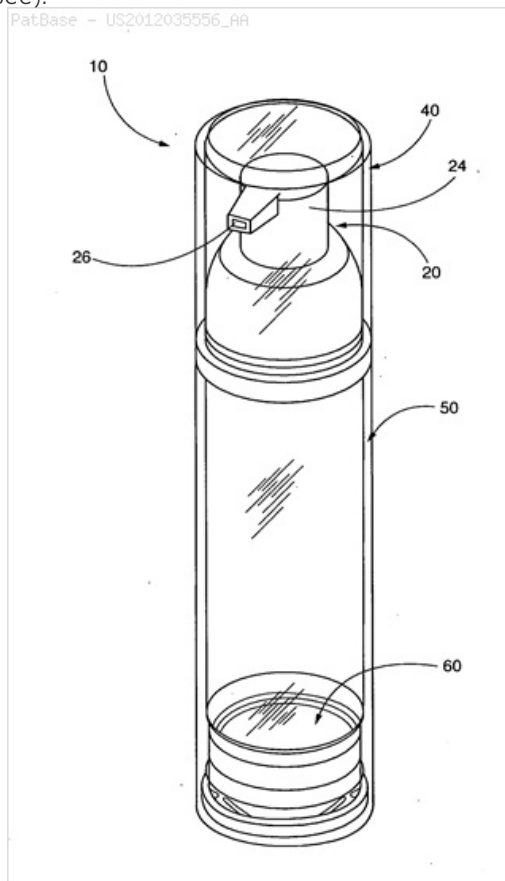
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Title: PUMP SYSTEMS AND METHODS FOR STORING AND DISPENSING A PLURALITY OF PRECISELY MEASURED UNIT-DOSES OF IMIQUIMOD CREAM

Abstract: The present invention is directed to airless storage and dispensing systems that include a pump or dispensing package pre-filled with a topical semi-solid imiquimod pharmaceutical formulation ("pump systems") and methods for storing and dispensing from the pump systems a plurality of precisely measured and uniform unit doses of a topical semi-solid imiquimod pharmaceutical formulation, and more particularly to pump systems, pre-filled with a topical imiquimod pharmaceutical cream and methods for delivering multiple precisely measured unit doses of a topical imiquimod pharmaceutical cream, and methods for using a controlled delivery pump system to store and dispense a plurality of consistent and precisely measured unit doses of a topical imiquimod pharmaceutical cream for use in topically treating a dermal and mucosal-associated condition, such as, external genital warts and/or perianal warts (EGWs), actinic keratosis or actinic keratoses (AK or AKs) and superficial basal cell carcinoma (sBCC).

Classifications:

International (IPC 8-9): A61J1/00 A61J1/22 A61J3/04 A61K A61K31/00 A61K31/4745 A61K47/10 A61K9/00 A61K9/06 A61M35/00 A61P17/12 A61P31/14 B05B11/00 B05B11/02 B65D47/24 B65D47/34 B65D83/76 B67B B67B5/00 G01F11/00 G01F11/06 (Advanced/Invention); A61K31/4745 G01F11/04 (Advanced/Non-invention); B67B5/00 (Core/Invention)
CPC: A61M35/003 A61K9/0014 A61K9/0031 A61K9/0034 A61K9/06 A61K47/10 B05B11/3001 B05B11/3047 B05B11/3042 B05B11/0037 A61K31/4745 B05B11/00416 B05B11/00446 B05B11/0038
European: A61K31/4745 A61K47/10 A61K9/00M3 A61K9/00M6 A61K9/00M8 A61K9/06 A61M35/00B B05B11/00B2F B05B11/00B5A4 B05B11/30C L05B11/00B5 L05B11/30H1D2
US: 1/1 604/290 604/290P 604/310 604/310S 604/311 604/311S



Family:

Publication number	Publication date	Application number	Application date
AU2011285567 AA	20120209	AU20110285567	20110805
AU2011285567 BB	20160915	AU20110285567	20110805
CA2713777 AA	20120205	CA20102713777	20100826
CA2713777 C	20140805	CA20102713777	20100826
EA030208 B1	20180731	EA20130090200	20110805
EA201390200 A1	20130628	EA20130090200	20110805
EP2600870 A2	20130612	EP20110815401	20110805
EP2600870 A4	20140806	EP20110815401	20110805
GE201606588 B	20170110	GE20110013020	20110805
IL224580 A0	20130324	IL20110224580	20110805
KR20130095749 A	20130828	KR20137005738	20110805
NO20130319 A	20130430	NO20130000319	20130305
NZ607844 A	20150731	NZ20110607844	20110805

UA113835 C2	20170327	UA20130002743	20110805
US2012035556 AA	20120209	US20100875787	20100903
US2015314115 AA	20151105	US20150641089	20150306
US9072876 BB	20150707	US20100875787	20100903
US9642998 BB	20170509	US20150641089	20150306
WO12019158 A2	20120209	WO2011US46847	20110805
WO12019158 A3	20120510	WO2011US46847	20110805
ZA201301678 A	20160629	ZA20130001678	20110805

Priority:

US20100371137P 20100805	US20100401997P 20100820	US20100375580P 20100820
US20100376154P 20100823	US20100402052P 20100823	CA20102713777 20100826
US20100377336P 20100826	US20100402251P 20100826	US20100875787 20100903
WO2011US46847 20110805	US20150641089 20150306	

Probable Assignee: MEDICIS PHARMACEUTICAL CORP

Assignee(s): (std): MEDICIS PHARMACEUTICAL CORP ; GRACEWAY PHARMACEUTICALS LLC ; GRACEWAY PHARMACEUTICALS LLC ; NORDSIEK MICHAEL T ; BALAJI KODUMUDI S

Assignee(s): BANK OF NEW YORK MELLON ; BANK OF NEW YORK MELLON COLLATERAL AGENT AS ; BANK OF NEW YORK MELLON NOTES COLLATERAL AGENT AS ; BARCLAYS BANK PLC ; BARCLAYS BANK PLC COLLATERAL AGENT AS ; GOLDMAN SACHS LENDING PARTNERS LLC ; GRACEWAY PHARMACEUTICALS LLC 500 - 340 MARTIN LUTHER KING JR. BLVD.BRISTOLTN37620US ; MEDICIS PHARMACEUTICAL CORP7720 NORTH DOBSON ROADSCOTTSDALEAZ85256US ; BARCLAYS BANK PLC SUCCESSOR AGENT AS

Inventor(s): (std): BALAJI KODUMUDI S ; NORDSIEK MICHAEL T

Inventor(s): BALAJI KODUMUDI SUS ; NORDSIEK MICHAEL TUS

Agent(s): SPRUSON AND FERGUSON; GOWLING LAFLEUR HENDERSON LLP; CAMPBELL PATRICK JOHN HENRY; KILPATRICK TOWNSEND AND STOCKTON LLP; KENNETH R; MANSO PETER J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

170) Family number: 29413455 (US5244700A)

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Title: CENTERPIECE ASSEMBLY SIMULATING FLORAL BOUQUET

Abstract: A centerpiece assembly in which an array of floral-like elements is supported on a rack to simulate a bouquet of cut flowers. Each element in the array has a stem formed by a transparent tubular wand filled with pellets of candy whose color imparts color to the stem. The lower end of the wand is provided with a removable stopper, the upper end having a decorative flower-like pom-pom attached thereto. The rack, fabricated of transparent material, is composed of a base plate having a center post anchored thereon on which are supported at least two tier plates, one above the other, each tier having a ring of equi-spaced holes therein coaxial with the center post. The upper tier ring has a diameter greater than that of the lower tier ring, whereby each hole in the upper ring is spaced a greater distance from the post than the corresponding hole in the lower ring. The wand of each floral-like element is inserted into a respective hole in the upper ring and the corresponding hole in the lower ring, with its lower end resting on the base, whereby the elements of the array are outwardly inclined and converge at the base to simulate a bouquet of cut flowers.

Classifications:

International (ipc 8-9): A01G5/04 A41G1/00 A45C11/00 A45D33/18 A47F7/00 B44C3/00 B65D85/60 D04D7/06 (Advanced/Invention);

B44C3/00 B65D85/60 D04D7/06 (Advanced/Non-invention);

A01G5/00 A41G1/00 A47F7/00 B44C3/00 B65D85/60 (Core/Invention)

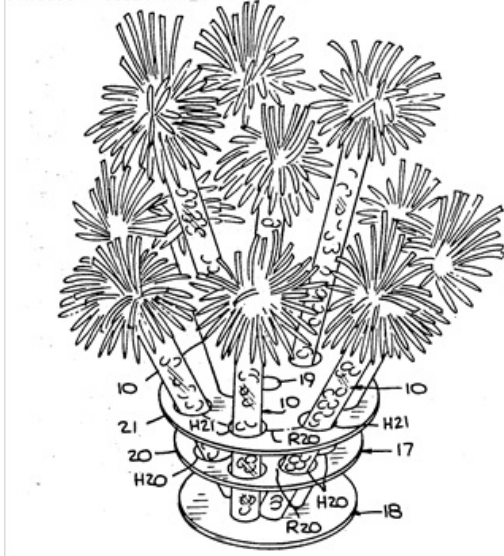
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CPC: A41G1/001 A01G5/04 A47F7/0078

European: A01G5/04 A41G1/00B A41G1/00B10 A47F7/0011

US: 211/13 211/13.1 211/131 211/60.1 428/17 428/23 428/24 428/4 47/41.12 47/41.13 47/41.14

PatBase - US5244700_A



Family:

Publication number	Publication date	Application number	Application date
AU199349987 A1	19940303	AU19930049987	19930806
BRPI9305599 A	19941213	BR1993PI05599	19930806
CA2120752 AA	19940407	CA19932120752	19930806
CA2120752 AA	19940217	CA19932120752	19930806
EP0607421 A1	19940727	EP19930919912	19930806
EP0607421 A4	19950329	EP19930919912	19930806
JP7502705 T2	19950323	JP19940505584T	19930806
KR19940702958 A	19940917	KR19940701124	19940407
KR19947002958 A	19940917	KR19947001124	19930806
US5244700 A	19930914	US19920925770	19920807

US5380568 A	19950110	US19930109080	19930819
US5683762 A	19971104	US19940211606	19940407
WO9403669 A1	19940217	WO1993US07411	19930806

Priority:

US19920925770 19920807 WO1993US07411 19930806 US19930109080 19930819
US19940211606 19940407

Probable Assignee: BANSCHICK KENNETH A

Assignee(s): (std): BANSCHICK KENNETH ; BANSCHICK KENNETH A ; KENNETH A BANSCHICK

Inventor(s): (std): BANSCHICK KENNETH ; BANSCHICK KENNETH A

Inventor(s): KENNETH A BANSCHICK

Agent(s): GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP

Designated states: AT AU BB BE BR CA CH DE DK ES FR GB GR IE IT JP KR LI LU MC NL PL PT SE US VN

171) Family number: 32195456 (US2006000851A)

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Title: LIQUID CONCENTRATE/EXTRACT BEVERAGE DISPENSER WITH REPLACEABLE CONCENTRATE/EXTRACT CARTRIDGE

Abstract: A beverage dispenser for dispensing a beverage into a container is provided. The dispenser includes a housing having a dispensing area. A pump or a control valve is in communication with a source of diluent which is to be dispensed into the dispensing area. A cartridge receiving area and a dispensing actuator are located in the housing. A concentrate/extract cartridge is removably insertable into the cartridge receiving area in a position to be actuated by the dispensing actuator, the concentrate/extract cartridge being adapted to hold a beverage concentrate/extract and including a dispensing aperture for dispensing a beverage concentrate/extract into the dispensing area upon placement of the concentrate/extract cartridge in the cartridge receiving area. A controller is located in the housing to control the actuator to discharge concentrate/extract into the dispensing area. A method of dispensing a selected beverage made from concentrate/extract and a diluent is also provided.

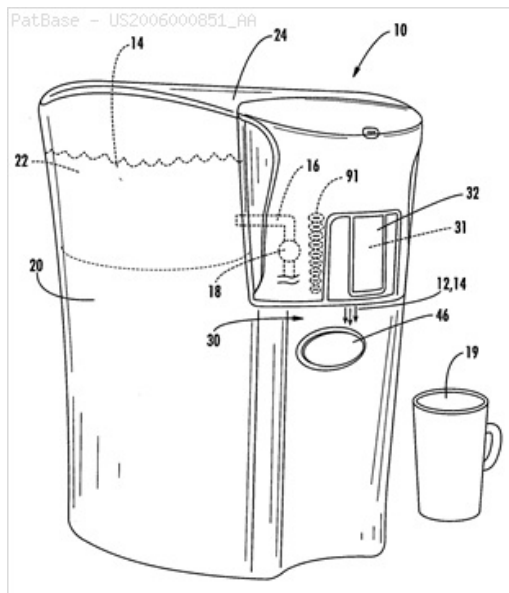
Classifications:

International (IPC 8-9): A23L1/00 A47J31/00 A47J31/40 A47J31/41 A47J31/44 A47J31/46 A47J47/01 A47L15/42 A47L15/44 B05B17/04 B22D41/00 B23P15/00 B65B1/04 B65D35/56 B65D37/00 B65D83/00 B65D88/54 B67D B67D1/00 B67D1/04 B67D1/08 B67D1/10 B67D1/12 B67D3/00 B67D5/01 B67D5/06 B67D5/08 B67D5/14 B67D5/38 B67D5/48 B67D5/56 B67D5/60 B67D5/62 B67D5/64 B67D7/00 B67D7/06 B67D7/08 B67D7/14 B67D7/30 B67D7/56 B67D7/66 B67D7/74 B67D7/78 B67D7/80 B67D7/84 D06F33/00 D06F39/02 F04B49/06 F25D9/00 G01F11/00 G01F11/10 G01F11/20 G05D23/00 G05D7/00 G05D7/06 G06F17/00 (Advanced/Invention); B67D7/78 B67D7/80 G01F11/20 (Advanced/Non-invention); A23L1/00 A47J31/00 A47J31/44 B05B17/04 B22D41/00 B65D35/00 B65D83/00 B65D88/00 B67D1/00 B67D3/00 B67D7/00 B67D7/06 B67D7/08 B67D7/58 B67D7/74 B67D7/78 B67D7/80 B67D7/84 F25D9/00 G01F11/00 G01F11/10 G05D23/00 G05D7/00 G05D7/06 G06F17/00 (Core/Invention); B65D B67D (Subclass/Invention)

CPC: A47J36/2411 A47J47/01 B67D1/0021 G01F11/029 A47J31/465 A47J31/56 A47K5/1207 B67D3/0032 A47J31/407 A47J31/41 A47J31/4492 B67D1/0022 B67D1/0046 B67D1/0895 B67D2001/0814 G01F13/00 A47J31/46 A47L15/4418 D06F39/022 Y10T29/49236 F16K31/0655 B67D1/0079 B67D1/1247 F16K31/0651 B05B7/2408 A47J31/402 B05B7/2443 B05B7/2481 B44D3/06 B67D1/0031 B67D1/0043 B67D1/0078 B67D1/0857 B67D1/1231 B67D1/1286 B67D3/0006 B67D2210/00036 B67D2210/00118 B01F5/0496 B01F13/1058 B01F13/1066 Y10T137/7888 Y10T137/87981 A47L15/4463 A47L2301/08 A47L2401/20 A47L2501/07 D06F33/02 D06F2204/02 D06F2212/02 B01F13/1069

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US: 1/1 134/58D 137/614.11 137/852 141/2 141/301 141/351 141/355 141/360 141/362 222/1 222/105 222/129.1 222/129.100P 222/129.100S 222/129.3 222/129.4 222/130 222/130S 222/144.5 222/144.500S 222/145.5 222/145.6 222/145.600S 222/146.1 222/146.2 222/146.6 222/146.600S 222/157 222/1P 222/1S 222/207 222/214 222/23 222/23S 222/325 222/326 222/327 222/327S 222/333 222/360 222/380 222/504 222/509 222/52 222/52S 222/54 222/544 222/54S 222/571 222/63 222/64 222/642 222/642S 222/64S 222/96 235/375 235/375P 251/129.01 29/888.02 29/888.020S 312/237 417/417 417/44.1 62/56 62/56S 68/12.01 99/275 99/275P 99/279 99/280 99/290 99/295 99/295P 99/323.3



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Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: INTELLIGENT COFFEE CO LLC

Assignee(s): (std): GREENWALD TECHNOLOGIES LLC ; INTELLIGENT COFFEE CO L L ; GREENWALD ZIPORA ; INTELLIGENT COFFEE CO LLC ; INTELLIGENT COFFEE COMPANY LLC ; INTELLIGENT COFFEE COMPANY L L ; ANDERSON ERIK KENNETH ; FISCHER ROY KENNETH ; GIRARD JEFFREY J ; GREENWALD SHLOMO ; INTELLIDZHENT KOFFI KOMPANI EH ; INTELLIGENT COFFEE COMPANY L L C ; INTELLIGENT COFFEE CO L L C ; VASSAUX MARIO E ; SYMINGTON RICHARD ; PIRSHAFIEY NASSER ; KAY HEATHER B ; VAN DEN HOONAARD PAUL ; PIRSHAFIEY NASSAR

Assignee(s): INTELLIGENT COFFEE COLLC SCOTTSDALE ; INTELLIGENT COFFEE CO ; INTELLIDZHENT KOFFI KOMPANI EHL EHL SI

Inventor(s): (std): FISCHER ROY ; FISCHER ROY K ; FISCHER ROY KENNETH ; FISHER ROJ KENNET ; GIRARD JEFFREY ; GIRARD JEFFREY J ; ANDERSON EHRIK KENNET ; ANDERSON ERIK ; ANDERSON ERIK K ; ANDERSON ERIK KENNETH ; GREENW GIRARD JEFFREY J VASSAU ; GREENWALD SHIOMO ; GREENWALD SHLOMO ; GRINVAL D SHLOMO ; GRINVAL D ZIPORA ; GREENWALD ZIPOPA ; GREENWALD ZIPORA ; KAY HEATHER B ; KEJ KHITER B ; KENNETH ERIK ; KENNETH ROY ; PIRSHAFIEY NASSAR ; PIRSHAFIEY NASSER ; SAJMINGTON RICHARD ; SHLOMO GREENWALD ; SYMINGTON RICHARD ; VASSAUX MARIO ; VASSAUX MARIO E ; NASSER PIRSHAFIEY ; PIRSHAF E NASSER ; VASSO MARIO E ; ZHIRAR DZHEFFRI DZH ; ZIPORA GREENWALD ; VAN DEN HOONAARD PAUL

Inventor(s): PIRSHAF'E NASSER ; VASSAUX MARIO E SCOTTSDALE ; PIRSHAFIEY NASSER THOUSAND OAKS ; RICHARD SYMINGTON ; ROY KENNETH FISCHER ; MARIO E VASSAUX ; KAY HEATHER B MESA ; GREENWALD ZIPORA ITHACA ; GRINVAL'D SHLOMO ; GRINVAL'D ZIPORA ; HEATHER B KAY ; JEFFREY J GIRARD ; KAY HEATHER ; GREENWALD SHLOMO ITHACA ; ERIK KENNETH ANDERSON ; GIRARD JEFFREY J GILBERT ; GIRARD JEFFREY J VASSAUX MARIO E FISCHER ROY KENNE

Agent(s): MORCOM PERNAT; DARK IP; BORDEN LADNER GERVAIS LLP; GOWLING LAFLEUR HENDERSON LLP; LEDERER AND KELLER PATENTANWALTE PARTNERSCHAFT MBB; PERKINS SARAH; PERKINS SARAH ET AL; REINHOLD COHN AND PARTNERS; VOLPE AND KOENIG PC; BROWN AND MICHAELS PC, 400 M AND T BANK BUILDING; BROWN AND MICHAELS PC 400 M AND T BANK BUILDING; BROWN AND MICHAELS PC; BUCKLIN DOUGLAS J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

172) Family number: 7984458 (US4233692A)

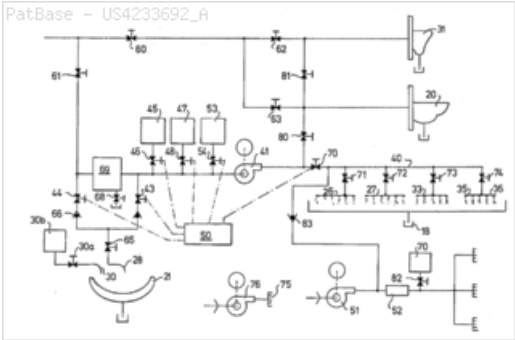
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Title: Rest rooms

Abstract: A rest room module adapted for rapid, efficient and thorough manual or automatic cleaning is provided having a unitary floor, ceiling and four walls, an entrance in one of said walls, a sealable closure for said entrance, a drain opening in said floor, lighting means sealingly recessed in one of said walls and/or ceiling, a toilet fixture positioned between two of said walls and forming an integral part thereof, and a lavatory and counter fixture on at least one wall adjacent said toilet and forming an integral part of said wall, and one of a urinal fixture and counter on the other wall adjacent to said toilet and forming an integral part of said wall, said wall and fixtures being an integral unitary assembly with all intersecting surfaces being arcuately contoured.

Classifications:

International (IPC 8-9): A47K4/00 E03D11/12 E03D9/00 E04H1/12 (Advanced/Invention);
A47K4/00 E03D11/00 E03D9/00 E04H1/12 (Core/Invention)
International (IPC 1-7): A47K17/00
CPC: A47K4/00 E03D9/002 E03D11/12 E04H1/1216
European: A47K4/00 E03D11/12 E03D9/00D E04H1/12B2
US: 4/662 4/664 52/34



Family:

Publication number	Publication date	Application number	Application date
US4233692 A	19801118	US19790082736	19791009

Priority:

US19780917192 19780620 US19790082736 19791009

Probable Assignee: SINSLEY JOHN D

Assignee(s): (std): SINSLEY JOHN D

Inventor(s): (std): SINSLEY JOHN D

173) Family number: 60886459 (US2013191513A)

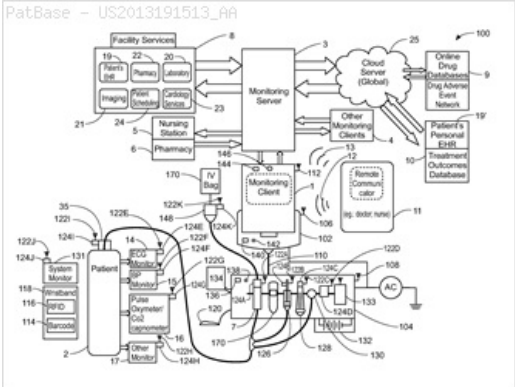
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Title: SYSTEM, METHOD, AND APPARATUS FOR ELECTRONIC PATIENT CARE

Abstract: A method implemented by an operative set of processor executable instructions configured for execution by a processor includes: determining if a monitoring client is connected to a base through a physical connection; establishing a first communications link between the monitoring client and the base through the physical connection; updating, if necessary, the interface program on the monitoring client and the base through the first communications link; establishing a second communications link between the monitoring client and the base using the first communications link; and communicating data from the base to the monitoring client using the second communications links.

Classifications:

International (IPC 8-9): H04L29/08 (Advanced/Invention)
CPC: H04L67/02 G06F19/3418 G06F19/3468 G06Q10/00 G06Q50/22 G16H10/60 G16H10/65
US: 709/219



Family:

Publication number	Publication date	Application number	Application date
US2013191513 AA	20130725	US20120723253	20121221

Priority:

US20110333574 20111221 US20110578649P 20111221 US20110578658P 20111221
US20110578674P 20111221 WO2011US66588 20111221 US20120651322P 20120524
US20120679117P 20120803 US20120723253 20121221

Probable Assignee: DEKA PRODUCTS PARTNERSHIP LTD
Assignee(s): (std): DEKA PRODUCTS LP
Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD
Inventor(s): (std): BIASI JOHN J ; KAMEN DEAN ; PRIBYL ERIC L

174) Family number: 15055459 (US5858117A)

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Title: Proteolytic enzyme cleaner

Abstract: Compositions for use as soil removing agents in the food processing industry are disclosed. Food soiled surfaces in food manufacturing and preparation areas can be cleaned. The compositions are manufactured in the form of a concentrate which is diluted with water and used. The cleaning materials are made in a two part system which are diluted with a diluent source and mixed prior to use. The products contain high quality cleaning compositions and use a variety of active ingredients. The preferred materials, in a two part system contain detergent compositions, enzymes that degrade food compositions, surfactants, low alkaline builders, water conditioning (softening) agents, and optionally a variety of formulary adjuvants depending on product form.

Classifications:

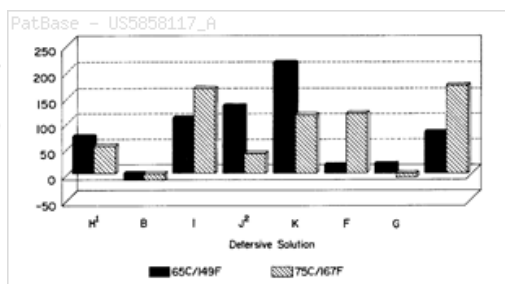
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C11D3/20 C11D3/33 C11D3/37 C11D3/386 (Advanced/Invention);
C11D3/386 (Advanced/Non-invention);
C11D1/38 C11D1/722 C11D1/825 C11D1/83 C11D1/835 C11D11/00
C11D17/00 C11D3/20 C11D3/26 C11D3/37
C11D3/38 (Core/Invention)

International (IPC 1-7): B08B3/00 C11D1/44 C11D1/72 C11D1/722
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CPC: C11D1/008 C11D1/44 C11D1/721 C11D1/722 C11D1/8255
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European: C11D1/00D C11D1/44 C11D1/722 C11D1/72B C11D1/825B C11D1/835B C11D11/00B2D6 C11D17/00B3
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US: 134/26 134/27 134/28 134/29 510/111 510/195 510/197 510/218 510/224 510/226 510/234 510/298 510/300 510/320
510/321 510/338 510/356 510/374 510/392 510/446



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US19940298950 19940831 US19950390650 19950216 WO1995US05878 19950508
US19960650963 19960521 US19970912873 19970819

Probable Assignee: ECOLAB INC

Assignee(s): (std): ECOLAB INC ; EHKOLEHB INK

Assignee(s): ECOLAB INC ST PAUL MINN US ; WICK KRISTINE K ; RICHTER FRANCIS L ; OAKES THOMAS R ; BULL SANDRA L ; CORDS BRUCE R

Inventor(s): (std): B R CORDS ; BR CORDS ; BRUCE R CORDS ; BULL SANDRA ; BULL SANDRA L ; CORDS BRUCE ; CORDS BRUCE R ; FRANCIS L RICHTER ; K K WICK ; KORDZ BRJUS R ; KRISTINE K WICK ; OAKES THOMAS ; OAKES THOMAS R ; OUKS TOMAS R ; RICHTER FRANCIS ; RICHTER FRANCIS L ; RICHTER FRANCIS R ; RIKHTER FRENIS L ; WICK KK ; WICK KRISTINE ; WICK KRISTINE K ; WICK K K ; OAKES T R ; CORDS B R ; SCHMIDT WILLIAM ; IHNS DEBORAH A ; SANDRA L BULL ; T R OAKES ; THOMAS R OAKES ; TR OAKES ; VIK KRISTIN K

Agent(s): GRIFFITH HACK; GOUDREAU GAGE DUBUC

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU

Family:

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US7901731 BB	20110308	US20100828076	20100630
US8034173 BB	20111011	US20050263284	20051031
US8043654 BB	20111025	US20100890962	20100927
US8110037 BB	20120207	US20100941669	20101108
US8974590 BB	20150310	US20120343514	20120104
WO07051747 A2	20070510	WO2006EP67760	20061025
WO07051747 A3	20080522	WO2006EP67760	20061025
WO07053266 A1	20070510	WO2006US39360	20061010

Priority:

EP20030009302	20030424	US20030740346	20031218	US20050264606	20051031
US20050263284	20051031	US20060451868	20060613	WO2006US39360	20061010
WO2006EP67760	20061025	US20100828076	20100630	US20100890962	20100927
US20100941669	20101108	US20120343514	20120104		

Probable Assignee: ARMOR ALL STP PRODUCTS CO

Assignee(s): (std): COUTTS DANIELLE ; DIETZ THOMAS ; GOLDSCHMIDT AG TH ; DEGUSSA GMBH ; DEGUSSA ; EVONIK DEGUSSA GMBH ; ARMOR ALL STP PRODUCTS CO ; CLOROX CO ; GOLDSCHMIDT TH AG ; RUSSELL JODI L ; PIVONKA NICHOLAS ; NARGIELLO MARIA R ; GOLDSCHMIDT GMBH ; NUN EDWIN ; MULLER FELIX ; RUSSEL JODI LYNN ; MUELLER FELIX ; RUSSELL JODI LYNN ; SEROBIAN ASHOT K ; WINTER PATRICK

Assignee(s): THE CLOROX COMPANY ; SEROBIEN ASHOT K ; SPECTRUM BRANDS INC ; SPECTRUM BRANDS INC A CORP OF DELAWARE ; SPECTRUM BRANDS INC SUCCESSOR IN INTEREST TO ROVICAL INC AS ; TELL MFG INC ; TETRA HOLDING US INC A CORP OF DELAWARE ; TETRA HOLDINGS US INC ; UNITED IND CORP ; UNITED IND SUCCESSOR IN INTEREST TO LIQUID HOLDING CO INC AS CORP ; UNITED PET GROUP INC ; UNITED PET GROUP INC A CORP OF DELAWARE ; MULLER FLEIX ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; KWIKSET CORP ; LIQUID HOLDING CO INC ; NATIONAL MFG CO ; PRICE PFISTER INC ; ROV HOLDING INC A CORP OF DELAWARE ; ROVICAL INC ; ROVICAL INC A CORP OF CALIFORNIA ; RUSSELL HOBBS INC A CORP OF DELAWARE ; SALIX ANIMAL HEALTH LLC ; SEED RESOURCES LLC ; ROYAL BANK OF CANADA ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; APPLICA CONSUMER PRODUCTS INC ; APPLICA CONSUMER PRODUCTS INC A CORP OF FLORIDA ; CLOROX SERVICES CO ; GOLDSCHMIDT AG ; EVONIK GOLDSCHMIDT GMBH ; DEGUSSA AG

Inventor(s): (std): DIETZ THOMAS ; COUTTS DANIELLE ; MUELLER FELIX ; MUELLER FELIX DR ; NARGIELLO MARIA R ; SEROBIAN ASHOT K ; WINTER PATRICK ; THOMAS DIETZ ; SEROBIEN ASHOT K ; RUSSELL JODI LYNN ; RUSSEL JODI LYNN ; PATRICK WINTER ; NUN EDWIN ; MULLER FLEIX ; MULLER FELIX ; LYNN RUSSEL JODI ; FELIX MUELLER ; MULLER FELIX DR ; NUN EDWIN DR ; PIVONKA NICHOLAS ; RUSSELL JODI L

Inventor(s): SEROBIAN ASHOT ; RUSSELL JODI ; NICHOLAS PIVONKA ; NARGIELLO MARIA ; DANIELLE COUTTS ; ASHOT K SEROBIAN ; ASHOT K SEROBIEN ; DR FELIX MUELLER ; DR FELIX MULLER ; DR THOMAS DIETZ ; FLEIX MULLER ; JODI LYNN RUSSEL ; JODI LYNN RUSSELL ; MARIA R NARGIELLO

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; RICHES MCKENZIE AND HERBERT LLP; THE CLOROX COMPANY; CLOROX CO; SCULLY SCOTT MURPHY AND PRESSER PC; ERIN; ANN; OHLANDT GREELEY RUGGIERO AND PERLE LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: DISPENSER WITH DOSES' COUNTER

Abstract: There is provided a dispenser suitable for dispensing medicament, particularly medicament for use in the treatment of respiratory disorders. The dispenser comprises a housing (1) having a support (5); a container (2), locatable within said housing (1), having an outlet (3), wherein said container (2) dispenses through said outlet (3) in response to movement of the container (2), relative to the housing (1); and an actuation indicator having an indexing mechanism (13, 43) actuable by movement of the container (2) relative to the housing (1). A couple mechanism (13, 43) is provided which couples the indexing mechanism (13, 43) to the container (2) to compensate for any variation in pre-actuation positionings of the indexing mechanism and container.

FDA Data:

Application number	Active ingredient	Proprietary name	Applicant	Date of approval
020983	ALBUTEROL SULFATE □□	VENTOLIN HFA □□	GLAXO GRP LTD	Apr 19, 2001
020983	ALBUTEROL SULFATE □□	VENTOLIN HFA □□	GLAXOSMITHKLINE	Apr 19, 2001
021254	FLUTICASONE PROPIONATE; SALMETEROL XINAFOATE □□	ADVAIR HFA □□	GLAXO GRP LTD	Jun 8, 2006
021254	FLUTICASONE PROPIONATE; SALMETEROL XINAFOATE □□	ADVAIR HFA □□	GLAXOSMITHKLINE	Jun 8, 2006
021433	FLUTICASONE PROPIONATE □□	FLOVENT HFA □□	GLAXO GRP LTD	May 14, 2004

Classifications:

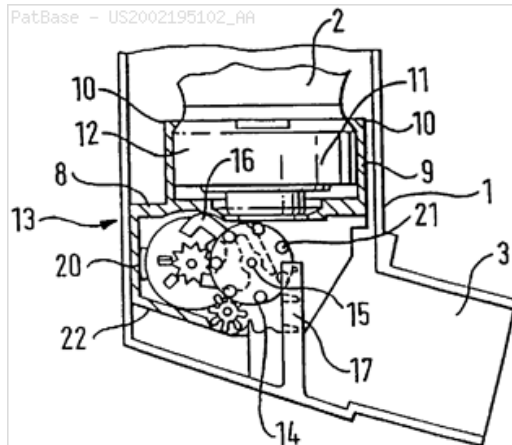
International (IPC 8-9): A47F1/035 A61K31/137 A61K31/56 A61K9/72 A61M A61M1/08 A61M11/00 A61M15/00 A61M16/00 A61P11/06 A61P11/08 B05B9/04 B65D83/06 B65D83/54 G01F11/20 (Advanced/Invention); A61M11/00 A61M15/00 (Advanced/Non-invention); A61M15/00 (Core/Invention); A61J B65D G01F (Subclass/Invention)

International (IPC 1-7): A61J A61M1/08 A61M11/00 A61M11/08 A61M15/00 A61M16/00 B05D12/00 B65D B65D83/14 B65D83/54 G01F G01F11/20

CPC: A61M15/0068 A61M15/0076 A61M15/008 A61M15/0081 A61M15/009 A61M15/0091

European: A61M15/00P K61M15/00D4 K61M15/00D4B2D K61M15/00D4E K61M15/00T

US: 128/200.14 128/200.140S 128/200.18 128/200.23 128/200.230P 128/200.24 128/203.12 128/203.15 128/203.150P 128/203.23

**Family:**

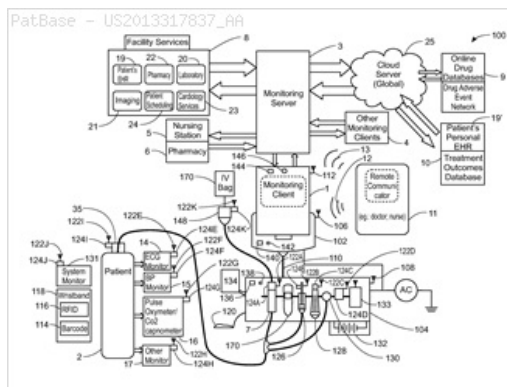
Publication number	Publication date	Application number	Application date
AP1126 A	20021205	AP19990001705	19980608
AP9901705 A0	19991231	AP19990001705	19980608
AR012939 AA	20001122	AR1998P102694	19980605
AT215389 E	20020415	AT19980934918T	19980608
AT251481 E	20031015	AT19980932127T	19980608
AT274952 E	20040915	AT19980118720T	19980608
AT305320 E	20051015	AT19980932128T	19980608
AU199882137 A1	19981230	AU19980082137	19980608
AU199882138 A1	19981230	AU19980082138	19980608
AU199884364 A1	19981230	AU19980084364	19980608
AU741218 B2	20011129	AU19980082138	19980608
AU741693 B2	20011206	AU19980082137	19980608
AU742913 B2	20020117	AU19980084364	19980608
BRPI9809554 A	20000620	BR1998PI09554	19980608
BRPI9809980 A	20000801	BR1998PI09980	19980608
BRPI9809983 A	20000801	BR1998PI09983	19980608
CA2293484 AA	19991209	CA19982293484	19980608
CA2293484 C	20100413	CA19982293484	19980608
CA2293487 AA	19991209	CA19982293487	19980608
CA2293487 C	20051213	CA19982293487	19980608
CA2293488 AA	19991209	CA19982293488	19980608
CA2293488 C	20051206	CA19982293488	19980608
CA2486892 AA	19981217	CA19982486892	19980608
CA2486894 AA	19981217	CA19982486894	19980608
CA2486894 C	20060221	CA19982486894	19980608
CN1150038 C	20040519	CN19988007698	19980608
CN1265601 A	20000906	CN19988007698	19980608
CO4830464 A1	19990830	CO19980032525	19980608
DE69804609 D1	20020508	DE19986004609	19980608
DE69804609 D1	20020508	DE19986004609T	19980608
DE69804609 T2	20020912	DE19986004609T	19980608
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DE69818819 D1	20031113	DE19986018819T	19980608
DE69818819 T2	20040812	DE19986018819T	19980608
DE69826039 D1	20041007	DE19986026039	19980608
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DE69826039 T2	20050922	DE19986026039T	19980608
DE69831739 D1	20051103	DE19986031739	19980608

DE69831739 D1	20051103	DE19986031739T	19980608
DE69831739 T2	20060427	DE19986031739T	19980608
DK0986412 T3	20020722	DK19980934918T	19980608
DK0988077 T3	20040112	DK19980932127T	19980608
DK1163922 T3	20041129	DK20010118720T	19980608
EA001396 B1	20010226	EA19990001017	19980608
EA199901017 A1	20000626	EA19990001017	19980608
EG21520 A	20011128	EG19980000632	19980607
EP0986412 A1	20000322	EP19980934918	19980608
EP0986412 B1	20020403	EP19980934918	19980608
EP0988077 A1	20000329	EP19980932127	19980608
EP0988077 B1	20031008	EP19980932127	19980608
EP0988078 A1	20000329	EP19980932128	19980608
EP0988078 B1	20050928	EP19980932128	19980608
EP1163922 A2	20011219	EP20010118720	19980608
EP1163922 A3	20021009	EP20010118720	19980608
EP1163922 B1	20040901	EP20010118720	19980608
EP1475116 A2	20041110	EP20040076303	19980608
EP1475116 A3	20101117	EP20040076303	19980608
ES2175737 T3	20021116	ES19980934918T	19980608
ES2207841 T3	20040601	ES19980932127T	19980608
ES2227031 T3	20050401	ES20010118720T	19980608
ES2249834 T3	20060401	ES19980932128T	19980608
GB9711889 A0	19970806	GB19970011889	19970610
GB9721875 A0	19971217	GB19970021875	19971016
HK1023956 A1	20020927	HK20000103327	20000601
HK1070846 A1	20050630	HK20050103662	20050428
HK1070846 A3	20050630	HK20050103662	20050428
HR980304 A2	19990430	HR19980000304	19980609
HR980304 B1	20030630	HR19980000304	19980609
HU0003328 AB	20010228	HU20000003328	19980608
HU0003328 AC	20010428	HU20000003328	19980608
HU228280 B1	20130228	HU20000003328	19980608
ID24128 A	20000706	ID19990001576	19980608
IL133219 A0	20010319	IL19980133219	19980608
IL133219 A1	20041215	IL19980133219	19980608
IN192609 A	20040508	IN1998CA01007	19980608
IS2177 B	20061215	IS19990005282	19991130
IS5282 A	19991130	IS19990005282	19991130
JP2000513632 T2	20001017	JP19990501535T	19980608
JP2000513633 T2	20001017	JP19990501536T	19980608
JP2000513634 T2	20001017	JP19990501537T	19980608
JP3487865 B2	20040119	JP19990501535T	19980608
JP3487866 B2	20040119	JP19990501536T	19980608
JP3487867 B2	20040119	JP19990501537T	19980608
KR100493837 B1	20050608	KR19997011640	19980608
KR20010013630 A	20010226	KR19997011640	19980608
MA24562 A1	19981231	MA19980025103	19980608
MY124574 A	20060630	MY19980002535	19980608
NO331497 B1	20120116	NO19990006085	19991209
NO996085 A	20000209	NO19990006085	19991209
NO996085 A0	19991209	NO19990006085	19991209
NZ501379 A	20020426	NZ19980501379	19980608
PE99099 A1	19991022	PE19980000464	19980605
PL188988 B1	20050531	PL19980337316	19980608
PL337316 A1	20000814	PL19980337316	19980608
PT1163922 T	20041231	PT20010118720T	19980608
PT986412 T	20020930	PT19980934918T	19980608
PT988077 T	20040331	PT19980932127T	19980608
RS49632 B	20070803	YU19990000657	19980608
TH23498 B	20080327	TH19981002114	19980605
TH37647 A	20000313	TH19981002114	19980605
TR9903066 T2	20000721	TR19990003066T	19980608
TW533865 Y	20030521	TW20020217008U	19980602
US2002195102 AA	20021226	US20020224000	20020820
US2003209239 AA	20031113	US20030465109	20030619
US2006289008 AA	20061228	US20060459048	20060721
US6360739 BA	20020326	US20000445659	20000331
US6431168 BA	20020813	US20000445673	20000313
US6474331 BA	20021105	US20000445658	20000331
US6601582 BB	20030805	US20020224000	20020820
US7107986 BB	20060919	US20030465109	20030619
US8245704 BB	20120821	US20060459048	20060721
WO9856444 A1	19981217	WO1998EP03377	19980608
WO9856445 A1	19981217	WO1998EP03378	19980608
WO9856446 A1	19981217	WO1998EP03379	19980608
YU65799 A	20010528	YU19990000657	19980608
ZA9804944 A	19991208	ZA19980004944	19980608

Priority:

GB19970011889 19970610	GB19970021875 19971016	CA19982293488 19980608
CA19982486892 19980608	CA19982486894 19980608	US19980445658 19980608

A61M2205/52 A61M1/1006 A61M1/1037 A61M2205/3331
A61M2205/3368 A61M2205/502 G16H40/63
US: 705/2



Family:

Publication number	Publication date	Application number	Application date
US2013317837 AA	20131128	US20130900655	20130523

Priority:

US20120480444 20120524 US20120651322P 20120524 WO2012US00257 20120524
US20130900655 20130523

Probable Assignee: DEKA PRODUCTS PARTNERSHIP LTD

Assignee(s): (std): DEKA PRODUCTS LP

Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s): (std): BALLANTYNE TODD A ; ROSSE JONATHAN P ; WILT MICHAEL J ; YEE BRIAN K

180) Family number: 60886479 (US2014188516A)

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Title: SYSTEM, METHOD, AND APPARATUS FOR ELECTRONIC PATIENT CARE

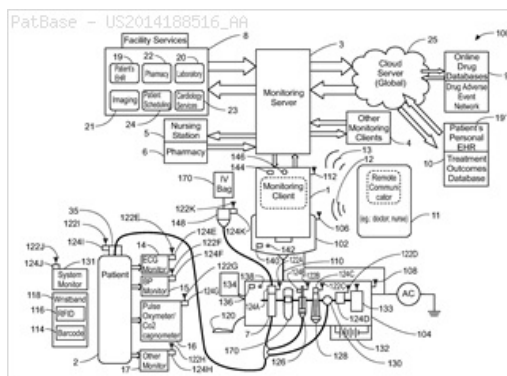
Abstract: A method, related system and apparatus are disclosed. The method is implemented by an operative set of processor executable instructions configured for execution by a processor. The method includes the acts of: determining if a monitoring client is connected to a base through a physical connection; establishing a first communications link between the monitoring client and the base through the physical connection; updating, if necessary, the interface program on the monitoring client and the base through the first communications link; establishing a second communications link between the monitoring client and the base using the first communications link; and communicating data from the base to the monitoring client using the second communications link.

Classifications:

International (IPC 8-9): G06F19/00 (Advanced/Invention)

CPC: G06F19/3468 G16H40/63 G06F19/3418

US: 705/3



Family:

Publication number	Publication date	Application number	Application date
US2014188516 AA	20140703	US20130136243	20131220

Priority:

US20100297544P 20100122 US20110011543 20110121 US20110333574 20111221
US20110578649P 20111221 US20110578658P 20111221 US20110578674P 20111221
WO2011US66588 20111221 US20120480444 20120524 US20120651322P 20120524
WO2012US00257 20120524 US20120679117P 20120803 US20120723253 20121221
US20120723239 20121221 US20120723242 20121221 US20120740474P 20121221
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Probable Assignee: DEKA PRODUCTS PARTNERSHIP LTD

Assignee(s): (std): DEKA PRODUCTS LP

Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s): (std): BIASI JOHN J ; BLUMBERG JR DAVID ; PRIBYL ERIC L ; KERWIN JOHN M ; KAMEN DEAN ; GORAYEB MARC J

181) Family number: 59134486 (US2015122373A)

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Title: FLEXIBLE CONTAINERS AND METHODS OF MAKING THE SAME

Abstract: A method of filling a product volume of a flexible container that includes a product volume and a structural support volume that at least partially extends into the product volume can include filling the product volume with product and

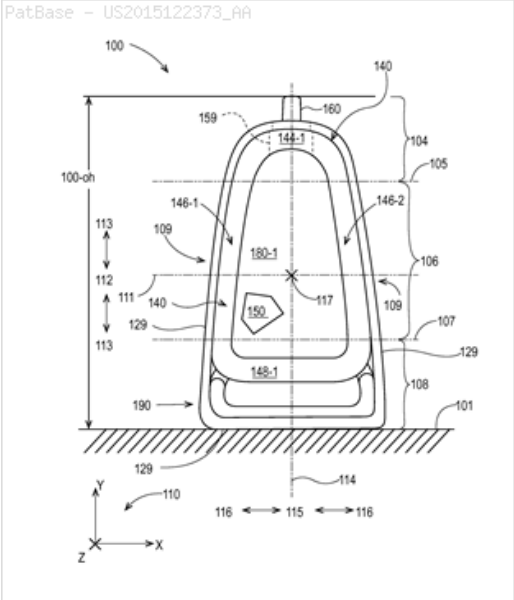
applying an external force to the product volume and sealing the product volume to reduce a product receiving volume of the product volume.

Classifications:

International (IPC 8-9): B65B B65B1/02 B65B1/04 B65B3/02 B65B3/04 B65B3/30 B65B31/02 B65B31/04 B65B5/02 B65B51/10 B65B61/00 B65B65/02 B65D B65D30/10 B65D30/16 B65D33/02 B65D75/00 B65D75/20 B65D75/52 B65D75/54 B65D75/56 B65D75/58 B65D81/03 (Advanced/Invention)

CPC: B65B3/04 B65B3/30 B65B1/04 B65B31/024 B65B51/10 B65B61/00 B65B65/02 B65D75/00 B65B1/02 B65B3/02 B65B5/02 B65B31/04 B65D31/16 B65D33/02 B65D75/008 B65D75/20 B65D75/525 B65D75/54 B65D75/566 B65D75/5877 B65D75/5883 B65D81/03 B65D2205/02 B31B70/008 B31B2219/23

US: 141/12



Family:

Publication number	Publication date	Application number	Application date
BR112016010209 A2	20170808	BR20161110209	20141106
CA2926528 AA	20160404	CA20142926528	20141106
CN105705432 A	20160622	CN201480061106	20141106
DE602014018884 D1	20180125	DE201460018884T	20141106
EP3066023 A1	20160914	EP20140802558	20141106
EP3066023 B1	20171220	EP20140802558	20141106
ID201705699 A	20170602	ID2016P0002505	20141106
IN201617011736 A	20160819	IN201617011736	20160402
JP2016535707 A2	20161117	JP20160552477	20141106
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KR20160067161 A	20160613	KR20167011784	20141106
MX2016005590 A1	20160721	MX20160005590	20141106
PH2016500836 A	20160613	PH20160500836	20160505
RU2016112352 A	20171207	RU20160112352	20141106
US2015122373 AA	20150507	US20140534213	20141106
US9981759 BB	20180529	US20140534213	20141106
WO15069821 A1	20150514	WO2014US64209	20141106
ZA201602591 A	20171220	ZA20160002591	20160415

Priority:

US20130900805P 20131106 EP20140802558 20141106 US20140534213 20141106
WO2014US64209 20141106

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): YOU JUN ; STANLEY SCOTT KENDYL ; PROCTER AND GAMBLE CO CINCINNATI ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; ISHIHARA TADAYOSHI ; LESTER JOSEPH CRAIG ; PROCTER AND GAMBLE CO

Inventor(s): (std): BENJAMIN JACOB CLARE ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; CRAIG LESTER JOSEPH ; ISHIHARA TADAYOSHI ; JACOB CLARE BENJAMIN ; JOSEPH CRAIG LESTER ; JUN YOU ; KENDYL STANLEY SCOTT ; LESTER JOSEPH CRAIG ; MARC RICHARD BOURGEOIS ; RICHARD BOURGEOIS MARC ; SCOTT KENDYL STANLEY ; STANLEY SCOTT KENDYL ; TADAYOSHI ISHIHARA ; YOU JUN ; YOUJUN

Inventor(s): YOU JUN CINCINNATI ; STANLEY SCOTT KENDYL CINCINNATI ; LESTER JOSEPH CRAIG CINCINNATI ; JOSEPH CRAIGLESTER ; ISHIHARA TADAYOSHI CINCINNATI ; CLARE BENJAMIN JACOB CINCINNATI ; BOURGEOIS MARC RICHARD CINCINNATI

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; ENGISCH GAUTIER; MAULITTA PRAMULASARI; TANI AND ABE PC; JEFFREY V; CHARLES R; GUFFEY TIMOTHY B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

182) Family number: 21114486 (FR1388026A)

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Title: RASOIR ELECTRIQUE ELECTRIC RAZOR (Machine translation)

Abstract: Source: FR1388026A [FR] (Claim 1) .de prévoir l'arrivée du liquide par un arbre creux ou un organe analogue.

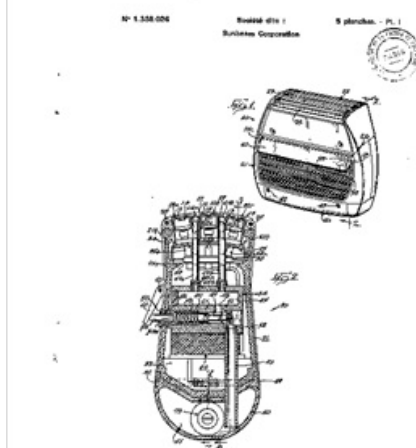
Machine translation: (Claim 1) . To predict the arrival of the liquid through a hollow shaft or the like.

Classifications:**International (IPC 8-9):** B26B19/40 (Advanced/Invention);

B26B19/38 (Core/Invention)

International (IPC 1-7): B26B19/40**CPC:** B26B19/40**European:** B26B19/40

PatBase - FR1388026_R

**Family:**

Publication number	Publication date	Application number	Application date
FR1388026 A	19650205	FR19630958356	19631224

Priority:

FR19630958356 19631224

Probable Assignee:

SUNBEAM CORP

Assignee(s): (std):

SUNBEAM CORP

183) Family number: 28177488 (US2002013975A)

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Title: Liquid extraction machine

Abstract: An extraction machine for cleaning a floor surface, such as carpeting, has a cleaning solution dispenser capable of dispensing a chemical cleaning agent onto the floor surface, and a source of chemical cleaning agent carried onboard the extraction machine and defining an interior space for holding chemical cleaning agent. The container has an opening and a closure for the opening, with the closure having a passage extending therethrough in fluid communication with the interior space of the container. A chemical delivery line provides fluid communication between the passage and the cleaning solution dispenser for delivering chemical cleaning agent from the container to the cleaning solution dispenser. A metering device is disposed generally adjacent the container closure in fluid communication with the passage for metering the flow of chemical cleaning agent from the source of cleaning agent.

Classifications:**International (IPC 8-9):** A47L11/03 A47L11/20 A47L11/30

A47L11/34 (Advanced/Invention)

International (IPC 1-7): A47C11/30 A47L11/03 A47L11/20

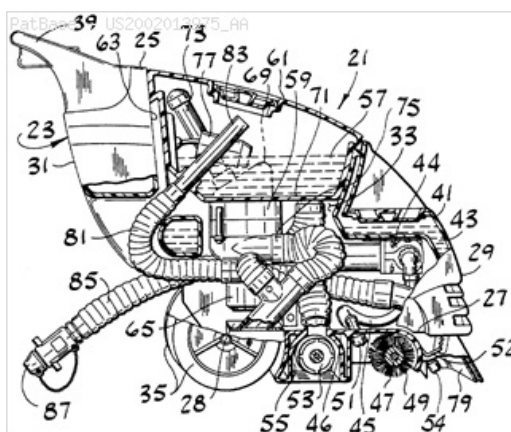
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CPC: A47L11/4083 A47L11/03 A47L11/30 A47L11/34 A47L11/4011

A47L11/4044 A47L11/4088

European: A47L11/03 A47L11/30 A47L11/34 A47L11/40C

A47L11/40F6 A47L11/40N2 A47L11/40N6

US: 15/320 15/320P**Family:**

Publication number	Publication date	Application number	Application date
CA2299089 AA	20001015	CA20002299089	20000222
EP1044645 A2	20001018	EP20000302995	20000410
EP1044645 A3	20021204	EP20000302995	20000410
US2002013975 AA	20020207	US20010973454	20011009
US6418586 BB	20020716	US20010973454	20011009

Priority:

US19990129499P 19990415

US20000496395 20000202

CA20002299089 20000222

US20000239137P 20001010

US20010973454 20011009

Probable Assignee: NILFISK ADVANCE INC**Assignee(s):** (std): ALTO U S INC ; ALTO US INC

Assignee(s): FULGHUM TRENT A ; NILFISK ADVANCE INC ; ALTO US ; ALTO U S
Inventor(s): (std): FULGHUM TRENT A ; FULGHAM TRENT A
Agent(s): SMART AND BIGGAR
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

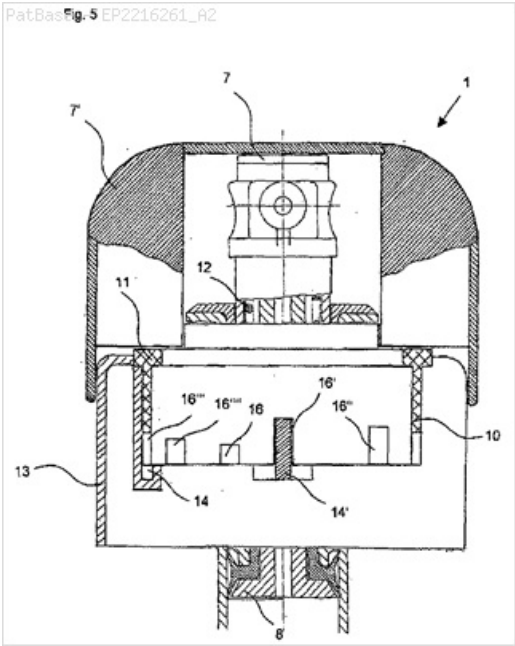
184) Family number: 46531488 (EP2216261A3)

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Title: DOSING DEVICE FOR A HYGIENE FLUID DISPOSITIF DE DOSAGE POUR FLUIDE HYGIENIQ

Abstract: Source: EP2216261A3 [DE] Die Erfindung stellt eine Dosiervorrichtung (1) zur Anordnung an einem Hygienefluid-Behälter (2) fuer ein Hygienefluid bereit. Die Dosiervorrichtung (1) umfasst eine Dispenservorrichtung (3), die eine Pumpvorrichtung zum Ausgeben des Hygienefluids aus dem Behälter (2) Ober ein Steigrohr (4) durch eine Leitung (4') aus einer Ausgabeeöffnung (5) umfasst. Dabei sitzt die Dispenservorrichtung (3) auf einer oeffnung des Hygienefluid-Behälters (2) auf und die Pumpvorrichtung weist eine Pumpkammer (6) mit einem ueber eine Kalbenbefaetigungsvvrrichtung (7) betaetigbaren Kolben (8) zur Ausfuehrung von Foerderhueben auf. Eine Verstellvorrichtung ist an der Pumpvorrichtung angeordnet, die eine mit der Dispenservorrichtung (3) verbundene und an der Pumpvorrichtung angeordnete Einrastnut (14) mit zumindest einer Erhebung (14') hat. Ferner umfasst die Verstellvorrichtung ein Einrastelement (10), das loesbar in der Einrastnut (14) anordenbar ist und das eine Mehrzahl von Positionierausnehmungen (16,16',16'',16''',16''') aufweist. Zumindest zwei der Positionierausnehmungen (16,16',16'',16''',16''') haben eine unterschiedliche Tiefe, und die zumindest eine Erhebung (14') ist mit einer der Positionierausnehmungen (16,16',16'',16''',16''') in Eingriff bringbar, so dass die Verstellvorrichtung hoeher oder tiefer in der Einrastnut (14) positionierbar ist und so dass ein aus der Einrastnut (14) herausragender Rand (11) des Einrastelemente (10) einen Anschlag fuer zumindest ein Abschnitt (9) der Kolbenbetaetigungsvorrichtung (7) bereitstellt und damit eine Hublaenge des Foerderhubes bestimmt.

Classifications:
International (IPC 8-9): A47K5/12 B05B11/00 B65D47/34 (Advanced/Invention); B05B11/00 B65D47/34 (Core/Invention)
CPC: B05B11/3008 B05B11/3014 B05B11/3074
European: B05B11/30C3D B05B11/30C5E2 B05B11/30H8B



Family:

Publication number	Publication date	Application number	Application date
DE102009008022 A1	20100812	DE200910008022	20090205
DE102009008022 B4	20170209	DE200910008022	20090205
EP2216261 A2	20100811	EP20100000968	20100201
EP2216261 A3	20140312	EP20100000968	20100201

Priority: DE200910008022 20090205
Probable Assignee: SCHNEIDER HARTMUT J
Assignee(s): (std): SCHNEIDER HARTMUT J
Inventor(s): (std): SCHNEIDER HARTMUT J
Agent(s): WAGNER JUTTA
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

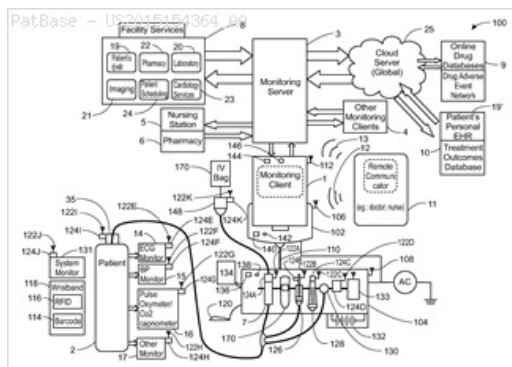
185) Family number: 60886493 (US2015154364A)

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Title: SYSTEM, METHOD AND APPARATUS FOR ELECTRONIC PATIENT CARE

Abstract: A system for electronic patient care includes a gateway and a medical device. The gateway is configured to provide at least one of a routing functionality, a medical device software update, and a web service. The medical device is configured to operatively communicate with the gateway using the web service.

Classifications:
International (IPC 8-9): G06F19/00 H04L29/08 (Advanced/Invention)
CPC: H04L67/12 A61B5/0022 A61B5/11 A61B5/7465 G06F3/0481 H04L45/02 H04L67/02 G06F19/3418 G16H10/60 G16H40/20 G16H40/40
US: 709/223



Family:

Publication number	Publication date	Application number	Application date
US2015154364 AA	20150604	US20150616079	20150206

Priority:

US20100297544P	20100122	US20110011543	20110121	US20110578649P	20111221
US20110578658P	20111221	US20110578674P	20111221	US20110333574	20111221
US20120651322P	20120524	US20120679117P	20120803	US20120723242	20121221
US20150616079	20150206				

Probable Assignee:

DEKA PRODUCTS PARTNERSHIP LTD

Assignee(s): (std):

DEKA PRODUCTS LP

Assignee(s):

DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s): (std):

BIASI JOHN J ; PRIBYL ERIC L

186) Family number: 31149494 (US5075026A)

© PatBase

Title: MICROEMULSION ALL PURPOSE LIQUID CLEANING COMPOSITION

Abstract: An improvement is described in microemulsion compositions containing an anionic detergent, one of the specified cosurfactants, a hydrocarbon ingredient and water which comprises the use of a water-insoluble odoriferous perfume as the essential hydrocarbon ingredient in a proportion sufficient to form either a dilute o/w microemulsion composition containing, by weight, 1 percent to 10 percent of an anionic detergent, 2 percent to 10 percent of cosurfactant, 0.4 percent to 10 percent of perfume and the balance water or a concentrated microemulsion composition containing, by weight, 18 percent to 65 percent of anionic and nonionic detergent, 2 percent to 30 percent of cosurfactant, 10 percent to 50 percent of perfume and the balance water which upon dilution with water will yield said dilute o/w microemulsion composition.

Classifications:

International (IPC 8-9): A61K8/06 B01F17/00 B01F17/14 B01F17/38 B01F17/42 B01F17/44 C11D1/02 C11D1/06 C11D1/14 C11D1/22 C11D1/66 C11D1/72 C11D1/83 C11D10/04 C11D17/00 C11D17/08 C11D3/18 C11D3/43 C11D3/48 C11D3/50 (Advanced/Invention); C11D1/02 C11D1/06 C11D1/14 C11D1/22 C11D1/66 C11D1/72 (Advanced/Non-invention); C11D1/83 C11D10/00 C11D17/00 C11D3/18 C11D3/43 C11D3/48 C11D3/50 (Core/Invention); C11D1/02 C11D1/66 C11D1/72 (Core/Non-invention)
International (IPC 1-7): B01F17/00 B01F17/14 B01F17/38 B01F17/42 B01F17/44 B01F17/60 C11D1/00 C11D1/02 C11D1/04 C11D1/14 C11D1/22 C11D1/66 C11D1/68 C11D1/72 C11D1/83 C11D1/831 C11D1/94 C11D10/04 C11D11/00 C11D17/00 C11D17/02 C11D17/08 C11D3/00 C11D3/04 C11D3/16 C11D3/18 C11D3/36 C11D3/43 C11D3/44 C11D3/46 C11D3/48 C11D3/50 C11D3/60 C11D9/00
CPC: C11D1/02 C11D1/06 C11D1/14 C11D1/22 C11D1/66 C11D1/72 C11D1/83 C11D3/43 C11D10/04 C11D3/50 C11D17/0021
European: A61K8/06C C11D1/83 C11D10/04 C11D17/00B C11D17/00B3M C11D3/43 C11D3/50 M11D1/02 M11D1/06 M11D1/14 M11D1/22 M11D1/66 M11D1/72
US: 134/40 252/122 252/170 252/171 252/174.11 252/174.16 252/174.19 252/174.21 510/101 510/104 510/106 510/109 510/238 510/362 510/365 510/417 510/422 510/424 510/432 510/434



Family:

Publication number	Publication date	Application number	Application date
AR242253 A1	19930331	AR19870307627	19870521
AR242828 A1	19930531	AR19880312453	19881114
AR243229 A1	19930730	AR19890315391	19891107
AT957 U1	19960826	AT19960008020U	19960226
AU198773138 A1	19871126	AU19870073138	19870518
AU198825062 A1	19890518	AU19880025062	19881111
AU198944381 A1	19900510	AU19890044381	19891103
AU597367 B2	19900531	AU19870073138	19870518
AU624795 B2	19920625	AU19880025062	19881111

BE1001742 AF	19900227	BE19870000570	19870521
BRPI8702610 A	19880223	BR1987PI02610	19870521
BRPI8805932 A	19890801	BR1988PI05932	19881111
BRPI8905713 A	19900605	BR1989PI05713	19891107
CA1302194 A1	19920602	CA19870537545	19870520
CA1337585 A1	19951121	CA19880582731	19881110
CA2002267 AA	19900507	CA19892002267	19891106
CH676854 A	19910315	CH19870001973	19870520
DE3716526 A1	19871126	DE19873716526	19870516
DE3716526 C2	20010315	DE19873716526	19870516
DK168958 B1	19940718	DK19870002589	19870521
DK170306 B1	19950731	DK19880006284	19881110
DK258987 A	19871122	DK19870002589	19870521
DK258987 A0	19870521	DK19870002589	19870521
DK555789 A	19900508	DK19890005557	19891107
DK555789 A0	19891107	DK19890005557	19891107
DK628488 A	19890513	DK19880006284	19881110
DK628488 A0	19881110	DK19880006284	19881110
EP0316726 A2	19890524	EP19880118618	19881109
EP0316726 A3	19891004	EP19880118618	19881109
EP0368146 A2	19900516	EP19890120287	19891102
EP0368146 A3	19900829	EP19890120287	19891102
ES2004934 AF	19890216	ES19870001481	19870520
FR2599046 A1	19871127	FR19870007057	19870520
FR2599046 B1	19930618	FR19870007057	19870520
GB2190681 A1	19871125	GB19870012052	19870521
GB2190681 B2	19910213	GB19870012052	19870521
GB8712052 A0	19870624	GB19870012052	19870521
GR1000541 B	19920825	GR19890100722	19891102
GR870802 B	19870909	GR19870000802	19870521
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HK60094 A	19940708	HK19940000600	19940623
IL82567 A0	19871130	IL19870082567	19870518
IL82567 A1	19910916	IL19870082567	19870518
IL88339 A0	19890630	IL19880088339	19881110
IL88339 A1	19920906	IL19880088339	19881110
IL92183 A0	19900726	IL19890092183	19891102
LU86888 A	19881122	LU19870086888	19870521
MX169813 B	19930727	MX19880013771	19881111
MX169901 B	19930730	MX19870006575	19870520
MX171011 B	19930924	MX19890018229	19891103
NL194085 B	20010201	NL19870001215	19870521
NL194085 C	20010605	NL19870001215	19870521
NL8701215 A	19871216	NL19870001215	19870521
NO170344 B	19920629	NO19870002116	19870520
NO170344 C	19921007	NO19870002116	19870520
NO872116 A	19871123	NO19870002116	19870520
NO872116 A0	19870520	NO19870002116	19870520
NO885051 A	19890516	NO19880005051	19881111
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NO894416 A	19900508	NO19890004416	19891106
NO894416 A0	19891106	NO19890004416	19891106
NZ220271 A	19900129	NZ19870220271	19870511
NZ226927 A	19911025	NZ19880226927	19881110
PH26507 A	19920807	PH19870035281	19870520
PT84886 A	19870601	PT19870084886	19870518
PT84886 B	19900208	PT19870084886	19870518
PT88977 A	19891130	PT19880088977	19881110
PT88977 B	19950703	PT19880088977	19881110
PT92212 A	19900531	PT19890092212	19891106
PT92212 B	19960329	PT19890092212	19891106
SE503826 C2	19960916	SE19870002084	19870520
SE8702084 A	19871122	SE19870002084	19870520
SE8702084 A0	19870520	SE19870002084	19870520
SE8702084 L	19871122	SE19870002084	19870520
SG9490209 A	19940610	SG19940090209	19940203
TR25009 A	19920828	TR19870000353	19870521
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US5082584 A	19920121	US19870085902	19870814
US5108643 A	19920428	US19880267872	19881107

Priority:

US19860866029	19860521	AT19870001267	19870519	CA19870537545	19870520
US19870085902	19870814	US19870120250	19871112	US19880267872	19881107
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CA19892002267	19891106	SG19940000209	19940203	SG19940090209	19940203
AT19960008020U	19960226				

Probable Assignee: COLGATE PALMOLIVE CO

Assignee(s): (std): COLGATE PALMOLIVE CO TE NEW YORK NEW YORK VER ; MYRIAM LOTH ; COLGATE PALMOLIVE CY ; BAUDOUIN VALANGE ; CLAUDE BLANVALET ; COLGATE PALMOLIVE CO

Assignee(s): COLGATE PALMOLIVE CO A OF DE CORP ; COLGATE PALMOLIVE CO NEW YORK ; COLGATE PALMOLIVE

Inventor(s): (std): ; BLANVALET CLAUDE ; COLGATE PALMOLIVE COMPANY TE NEW YORK NEW YORK VER ; COLGATE PALMOLIVE COMPANY ; COLGATE PALMOLIVE COMPANY TE NEW YORK NEW YORK VER ST V AM ; LOTH MYRIAM ; VALANGE BAUDOUIN ; COLGATE PALMOLIVE CO TE NEW YORK NEW YORK VER ST V AM BAUDOUIN VALANGE ; BAUDOVIN VALANGE ; BLANVALET CLAUDE ; C BLANVALET ; CLAUDE BLANVALET ; LOTH MYRIAM ; M LOTH ; MYRIAM LOTH ; MYRIAM LOTH CLAUDE BLANVALET ET BAUDOUIN VALANGE ; MYRIAM M LOTH ; MYRIAM LOTH ; VALANGE BAUDOUIN ; VALANGE BAUDOVIN ; VALANGE BAUDOUIN ; VALANGE B ; LOTH MYRIAM ; LOTH MYRIAM M ; LOTH M ; BLANVALET C ; B VALANGE

Inventor(s): BAUDOUIN VALANCE

Agent(s): FB RICE; FB RICE PTY LTD; SMART AND BIGGAR; SELIGSOHN GABRIELI AND CO

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

187) Family number: 48873501 (US2011110991A)

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Title: METHODS AND COMPOSITIONS FOR PREVENTING OR REDUCING FRIZZY APPEARANCE OF HAIR

Abstract: Compositions and methods are disclosed for preventing or reducing frizzy appearance of keratin fibers, including hair, and reducing the amount of fly-away strands of hair, particularly in humid conditions, by forming a coating on hair that is resistant to water vapors from the air or surrounding environment. The compositions comprise a combination of a hydrophobic particulate material comprising a hydrophobically surface-modified oxide and one or more hydrophobic film formers in a cosmetically acceptable vehicle.

Classifications:

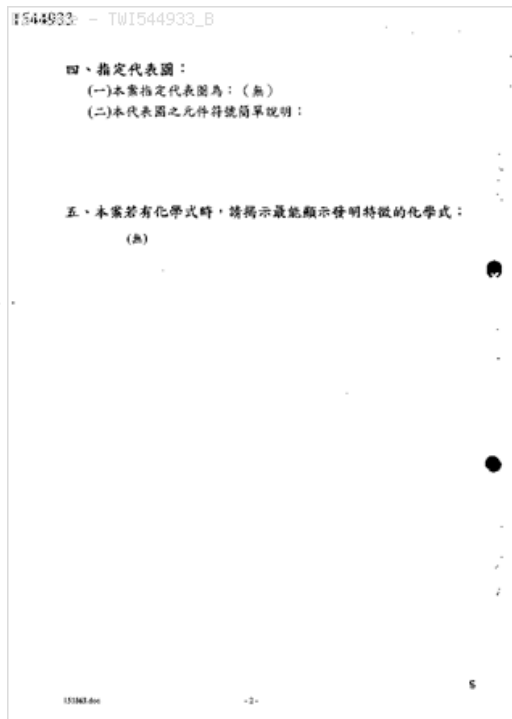
International (IPC 8-9): A61K A61K8/02 A61K8/06 A61K8/19 A61K8/25 A61K8/26 A61K8/27 A61K8/28 A61K8/29 A61K8/31 A61K8/58 A61K8/81 A61K8/89 A61K8/891 A61K8/892 A61K8/893 A61K8/894 A61K8/895 A61K8/897 A61K8/898 A61K8/91 A61Q A61Q5/04 A61Q5/06 A61Q5/12 (Advanced/Invention); A61K8/81 A61Q5/04 (Advanced/Non-invention); A61K8/25 A61K8/26 A61K8/27 A61K8/28 A61K8/29 A61K8/89 A61Q5/04 (Core/Non-invention); A61K A61Q (Subclass/Invention)

International (IPC 1-7): A61K7/09

CPC: A61K8/0241 A61K8/26 A61K8/585 A61K8/8152 A61K8/891 A61K8/895 A61K8/897 A61K8/898 A61K2800/413 A61K2800/623 A61Q5/06 A61K8/892 A61K2800/612

European: A61K8/26 A61K8/58C A61K8/891 A61K8/895 A61K8/897 A61K8/898 A61Q5/06D K61K201/103 K61K800/413

US: 424/401 424/401P 424/70.12 424/70.120S



Family:

Publication number	Publication date	Application number	Application date
AR078923 AA	20111214	AR2010P104114	20101105
CA2777375 AA	20110512	CA20102777375	20101026
CA2777375 C	20181204	CA20102777375	20101026
CN102596152 A	20120718	CN201080049623	20101026
CN105748320 A	20160713	CN201610126009	20101026
EP2496202 A1	20120912	EP20100828845	20101026
EP2496202 A4	20150909	EP20100828845	20101026
HK1168286 A1	20121228	HK20120109113	20120917
HK1220923 A1	20170519	HK20160109166	20160801
JP2013510151 T2	20130321	JP20120537914T	20101026
JP5800822 B2	20151028	JP20120537914T	20101026
MX2012004481 A1	20120508	MX20120004481	20101026
MX346816 B	20170331	MX20120004481	20101026
TW201125590 A	20110801	TW20100138238	20101105
TWI544933 B	20160811	TW20100138238	20101105
US2011110991 AA	20110512	US20100912816	20101027
US9622945 BB	20170418	US20100912816	20101027
WO11056547 A1	20110512	WO2010US54051	20101026

Priority:

US20090258648P 20091106 CN201080049623 20101026 WO2010US54051 20101026
US20100912816 20101027

Probable Assignee: AVON PRODUCTS INC

Assignee(s): (std): AVON PROD INC ; BUCKRIDGE KENNETH A ; GARRISON MARK S ; SANDSTROM GIOVANA A ; ROBINSON FRED E ; LUO XIAOCHUN ; YANG SEN

Assignee(s): CITIBANK NA ; AVON PRODUCTS INC

Inventor(s): (std): FRED E ROBINSON ; GARRISON MARK S ; GARRISON MARK S MS ; GIOVANA A SANDSTROM ; KENNETH A BUCKRIDGE ; LUO XIAOCHUN ; MARK S GARRISON ; ROBINSON FRED E ; ROBINSON FRED E FE ; BUCKRIDGE KENNETH A ; BUCKRIDGE KENNETH A KA ; SANDSTROM GIOVANA A ;

SANDSTROM GIOVANA A GA ; SEN YANG ; XIAOCHUN LUO ; YANG SEN ; YANG SEN S ; YANGSEN

Agent(s):

MBM INTELLECTUAL PROPERTY LAW LLP; DR WEITZEL AND PARTNER; CLT PATENT AND TRADEMARK HK LTD; JONATHAN D; GREENBERG TRAUIG LLP; ZELLER CHARLES J

Designated states:

AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

188) Family number: 56020505 (US2014078652A)

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Title: APPARATUS, SYSTEM AND METHOD FOR RESOURCE DISTRIBUTION

Abstract: A system for the distribution of resources. The system includes a housing including at least one water vapor distillation device, at least one power generating device, at least one source water reservoir, at least one product water reservoir, and at least one energy storage device.

Classifications:

International (IPC 8-9): B01D1/00 B01D5/00 C02F1/04 C02F1/14 C02F1/16 C02F1/18 E04H1/00 E04H1/12 E04H14/00 E04H3/00 E04H3/02 E04H3/08 E04H5/00 E04H6/00 E04H9/00 E04H9/10 F01K17/04 H05K7/00 (Advanced/Invention); C02F1/00 C02F1/14 C02F1/16 F02B67/00 H01M10/46 H02J7/00 (Advanced/Non-invention)

CPC: C02F1/008 C02F1/16 C02F2201/46165 C02F2209/42 C02F2307/10 H01M10/465 Y02T10/16 Y02T10/166 H05K7/00 C02F1/041 C02F1/18 B01D1/0035 B01D5/006 C02F1/04 C02F1/14 E04H1/1205 E04H1/1222 E04H3/02 E04H3/08 E04H9/10 E04H2001/1283 F01K17/04 H02J7/0027 Y02W10/37 Y02A20/212 E04H9/00

US: 202/152 202/83 361/679.01



Family:

Publication number	Publication date	Application number	Application date
MX2015003584 A1	20151026	MX20150003584	20130919
US2014078652 AA	20140320	US20130793552	20130311
US2014116870 AA	20140501	US20130031559	20130919
US2019069427 AA	20190228	US20180941748	20180330
US9936596 BB	20180403	US20130793552	20130311
US10017399 BB	20180710	US20130031559	20130919
WO14047280 A1	20140327	WO2013US60609	20130919

Priority:

US20120703015P 20120919 US20130793552 20130311 US20130866350P 20130815
US20130031559 20130919 WO2013US60609 20130919 US20180941748 20180330

Probable Assignee: DEKA PRODUCTS PARTNERSHIP LTD

Assignee(s): (std): DEKA PRODUCTS LP ; KAMEN DEAN ; NORRIS MATTHEW A

Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s): (std): KAMEN DEAN ; NORRIS MATTHEW A

Agent(s): MICHELLE SAQUET; TEMPLE MICHELLE SAQUET

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

189) Family number: 2253520 (US5000350A)

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Title: Dispenser with replaceable pouch

Abstract: A pair of superimposed panels are heat sealed together to define a reservoir in a dispenser pouch, adapted to contain a liquid therein. A spout is formed in offset relationship on a lower end of the pouch and defines a charging chamber that communicates with the reservoir to retain a pre-measured charge of the liquid therein. The spout terminates at a normally closed valve that opens when a predetermined external and downward pumping pressure is applied to the spout. A retention band may be secured transversely across on outer side of one of the panels to retain the spout when it is reverse-bent and slipped thereunder. The pouch is adapted for mounting in a dispensing unit having a dual-action pressure plate for pumping and dispensing the pre-measured charge of liquid from the spout.

Classifications:

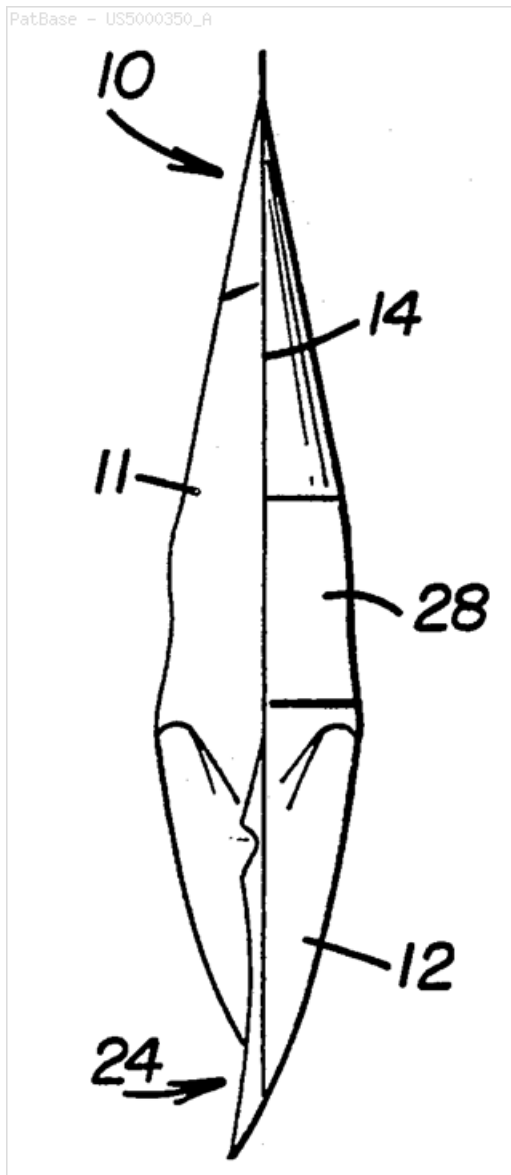
International (IPC 8-9): B65D33/14 B65D33/16 B65D33/38 B65D35/28 B65D35/40 B65D47/20 B65D75/58 B65D83/00 (Advanced/Invention); B65D33/14 B65D33/16 (Advanced/Non-invention); B65D33/14 B65D33/16 B65D33/36 B65D35/24 B65D47/04 B65D75/52 B65D83/00 (Core/Invention)

International (IPC 1-7): B65D33/14 B65D33/16 B65D33/38 B65D35/08 B65D35/28 B65D35/40 B65D37/00 B65D83/0

CPC: B65D35/28 B65D35/40 B65D47/2031 B65D75/5822

European: B65D35/28 B65D35/40 B65D47/20E2 B65D75/58D1

US: 222/103 222/105 222/107 222/491 222/95

**Family:**

Publication number	Publication date	Application number	Application date
AT70515 E	19920115	AT19860307881T	19861010
AU198666315 A1	19870611	AU19860066315	19861209
AU588655 B2	19890921	AU19860066315	19861209
DE3683025 D1	19920130	DE19863683025	19861010
EP0226290 A2	19870624	EP19860307881	19861010
EP0226290 A3	19900110	EP19860307881	19861010
EP0226290 B1	19911218	EP19860307881	19861010
ES2028787 T3	19920716	ES19860307881T	19861010
JP1983811 Y	19940421	JP19860189240U	19861210
JP4054109 Y2	19921218	JP19860189240U	19861210
JP62130048 U1	19870817	JP19860189240U	19861210
US5000350 A	19910319	US19890452229	19891218
US5067635 A	19911126	US19900623097	19901206

Priority:

US19850807293 19851210 EP19860307881 19861010 US19890452229 19891218
 US19900623097 19901206

Probable Assignee: THOMSEN P

Assignee(s): (std): THOMSEN P ; THOMSEN PETER ; THOMSEN PETER N

Assignee(s): THOMSEN PETER SAN FRANCISCO CALIF US ; PETER THOMSEN

Inventor(s): (std): THOMSEN PETER N ; THOMSEN PETER

Inventor(s): THOMSEN PETER SAN FRANCISCO CALIF US ; PETER THOMSEN ; THOMSEN PETER SAN FRANCISCO CALIF

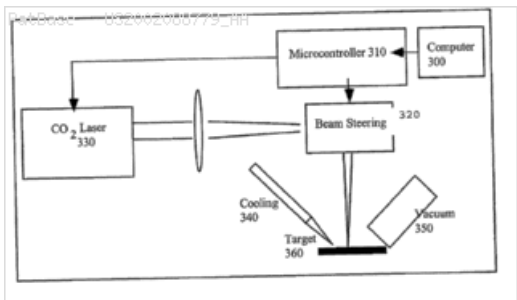
Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

Abstract: A method and a device for modifying target material for esthetic or biomedical applications. A source of energy is directed to apply the energy to a region of the tissue, so as to ablate or modify a portion of the tissue in the region allowing the creation of a desired esthetic pattern or target perforation for product, drug or nutrient delivery. Preferably, cooling of tissue in the region is initiated subsequent to the ablation.

Classifications:

International (IPC 8-9): A61B18/20 B23K26/06 B23K26/38 B44C1/00 B44C1/04 B44C1/22 (Advanced/Invention); A61B17/00 A61B18/00 (Advanced/Non-invention); A61B18/20 B23K26/00 B23K26/06 B44C1/00 B44C1/22 (Core/Invention); A61B17/00 A61B18/00 (Core/Non-invention)
International (IPC 1-7): A61B18/18 A61K9/70 A61N1/30 B23K26/36 B23K26/38
CPC: B44C1/005 B44C1/04 B44C1/228 A61B18/203 A61B2017/00172 A61B2017/00247 A61B2017/00765 A61B2018/00005 A61B2018/00392 A61B2018/00452 A61B2018/0047 B23K26/066 B23K26/382 A61B18/20 B23K26/0624 B23K26/18 A61B2018/20359 B23K2103/32 B23K2103/50
European: A61B18/20 A61B18/20H B23K26/06B4B B23K26/06C7 B23K26/18 B23K26/38B B44C1/00B B44C1/04 B44C1/22L K61B17/00C4P2 K61B17/00E1C2 K61B17/00R2S K61B18/00A K61B18/00F6A8 K61B18/00F8 K61B18/00F8B K61B18/20H K61B18/20S4
US: 219/121.68 219/121.69 219/121.690P 219/121.73 219/121.730S 424/443 424/443P 427/554 604/2 604/20 604/20S



Family:

Publication number	Publication date	Application number	Application date
US2002088779 AA	20020711	US20010878003	20010608
US2004005349 AA	20040108	US20010854311	20010510
US6717102 BB	20040406	US20010878003	20010608
WO02089688 A1	20021114	WO2002US14910	20020510

Priority:

US20000203647P 20000512 US20000210532P 20000608 US20000214530P 20000627
US20000215657P 20000701 US20000237548P 20000930 US20010272653P 20010228
US20010854311 20010510 US20010878003 20010608

Probable Assignee: NEEV JOSEPH

Assignee(s): (std): NEEV JOSEPH

Assignee(s): FISHER YORAM

Inventor(s): (std): FISHER YORAM ; NEEV JOSEPH

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

191) Family number: 48873530 (US2011110992A)

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Title: METHODS AND COMPOSITIONS FOR PREVENTING OR REDUCING FRIZZY APPEARANCE OF HAIR

Abstract: Compositions and methods are disclosed for preventing or reducing frizzy appearance of keratin fibers, including hair, and reducing the amount of fly-away strands of hair, particularly in humid conditions, by forming a coating on hair that is resistant to water vapors from the air or surrounding environment. The compositions comprise a combination of a hydrophobic particulate material comprising a hydrophobically surface-modified aluminum oxide and one or more hydrophobic film formers in a cosmetically acceptable vehicle.

Classifications:

International (IPC 8-9): A61K A61K8/02 A61K8/06 A61K8/19 A61K8/25 A61K8/26 A61K8/31 A61K8/34 A61K8/37 A61K8/41 A61K8/58 A61K8/81 A61K8/86 A61K8/87 A61K8/89 A61K8/891 A61K8/892 A61K8/895 A61K8/897 A61K8/898 A61K8/91 A61Q5/04 A61Q5/06 A61Q5/12 (Advanced/Invention); A61K8/02 A61Q5/04 (Advanced/Non-invention); A61K8/26 A61K8/89 A61K8/891 A61K8/898 A61Q5/04 (Core/Non-invention)
International (IPC 1-7): A61K7/06 A61K7/11
CPC: A61K8/25 A61K8/895 A61K8/91 A61Q5/06 A61K8/891 A61K8/897 A61K8/416 A61K8/86 A61K8/34 A61K8/8152 A61K8/37 A61K2800/412 A61K2800/594 A61K8/898 A61K8/26 A61K8/0241 A61K8/585 A61K2800/413 A61K2800/623
European: A61K8/25 A61K8/26 A61K8/895 A61K8/898 A61K8/91 A61Q5/06
US: 424/401 424/401P 424/691 424/70.1 424/70.12 424/70.120S 424/70.121

Family:

Publication number	Publication date	Application number	Application date
AR078924 AA	20111214	AR2010P104115	20101105
CA2777378 AA	20110512	CA20102777378	20101027
CA2777378 C	20190108	CA20102777378	20101027
CN102596153 A	20120718	CN201080049835	20101027
DE602010044904 D1	20171012	DE201060044904T	20101027
EP2496203 A1	20120912	EP20100828875	20101027
EP2496203 A4	20150909	EP20100828875	20101027
EP2496203 B1	20170830	EP20100828875	20101027
ES2646862 T3	20171218	ES20100828875T	20101027
HK1168285 A1	20121228	HK20120109111	20120917
JP2013510153 T2	20130321	JP20120537917T	20101027
JP5800823 B2	20151028	JP20120537917T	20101027
MX2012004482 A1	20120508	MX20120004482	20101027
TR201716606 T4	20171221	TR20170016606T	20101027
TW201124166 A	20110716	TW20100138265	20101105
TWI552763 B	20161011	TW20100138265	20101105
US2011110992 AA	20110512	US20100912859	20101027
US2015093422 AA	20150402	US20140560602	20141204
US8932569 BB	20150113	US20100912859	20101027

US9687437 BB	20170627	US20140560602	20141204
WO11056623 A1	20110512	WO2010US54199	20101027

Priority:

US20090258651P 20091106 EP20100828875 20101027 US20100912859 20101027
WO2010US54199 20101027 US20140560602 20141204

Probable Assignee: AVON PRODUCTS INC

Assignee(s): (std): AVON PROD INC ; BUCKRIDGE KENNETH A ; GARRISON MARK S ; SANDSTROM GIOVANA A ; ROBINSON FRED A ; LUO XIAOCHUN ; YANG SEN

Assignee(s): CITIBANK NA ; AVON PRODUCTS INC ; AVON PRODUCTS INC NEW YORK

Inventor(s): (std): GARRISON MARK S ; SANDSTROM GIOVANA A ; ROBINSON FRED A ; BUCKRIDGE KENNETH A ; LUO XIAOCHUN ; YANG SEN ; YANGSEN ; XIAOCHUN LUO

Inventor(s): KENNETH A BUCKRIDGE ; FRED A ROBINSON ; SEN YANG ; GIOVANA A SANDSTROM ; MARK S GARRISON

Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP; DR WEITZEL AND PARTNER; LEHMANN MARIA ISABEL; CLT PATENT AND TRADEMARK HK LTD; TOLGA CAYLAK; JOAN M; DAVID M; BRIAN P; ZELLER CHARLES J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

192) Family number: 27989532 (US2003013376A)

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Title: PSYCHOLOGICAL SUPPORT PLAYTHING AND METHOD

Abstract: A method for assisting a child to overcome a fear with a plaything, comprising the steps of providing a dispensing component, fixing in a tangible medium a story written for helping a child to confront and overcome a fear, providing access to the story in combination with the dispensing component, and directing an end user to read the story and to dispense using the dispensing component at select intervals during such reading.

Classifications:

International (IPC 8-9): G09B1/02 (Advanced/Invention); G09B1/00 (Core/Invention)

International (IPC 1-7): G09B19/00

CPC: A61M21/02 A61M2021/0016 A61M2021/0027 A61M2021/0044 A61M2021/0077 A61M2205/584 A61M2205/59 A61M2205/8206 G09B1/02

European: A61M21/02 G09B1/02 K61M205/58D2 K61M205/59 K61M205/82B K61M21/00A11 K61M21/00A3 K61M21/00A5 K61M21/00A6

US: 434/236 434/236S 446/236 446/236P



Family:

Publication number	Publication date	Application number	Application date
US2003013376 AA	20030116	US20020151409	20020520

Priority:

US20010292489P 20010521 US20020151409 20020520

Probable Assignee: MS PARTNERS LLC

Assignee(s): (std): MS PARTNERS LLC

Inventor(s): (std): FREAM JULIE A ; GRAHAM DOUGLAS ; GRAHAM JANET ; HINES CHARLES P ; LARSON ERIC ; LARSON KATHERINE ; LAWRENCE ROBERT ; SIMMONS MICHAEL ; SIMMONS STACEY

193) Family number: 43550534 (US2009320713A)

© PatBase

Title: PEOPLE AND CARGO TRANSIT SYSTEMS AND VEHICLES

Abstract: The Application discloses People and Cargo Transit Systems and Vehicles (PCTSV), using Narrow Vehicles (NV), which can have the form of a Bus, Train, Tram, Maglev, Mono-Rail or even Car or Truck. A preferred version of which is Single Seat Wide or below 70 cm wide, preferably a Bus type to need no Rail, using Dedicated Narrow Lanes adjacent to

Curbside of existing intra-city streets or limits of inter-city roads. Said NV and Lane have Anti-Roll Over Means to stabilize such a narrow vehicle, which also eliminate NV Swaying even when NV is a Bus or Car with has no inherent Sway Limiting. Being Ultra Narrow with No Sway and Running at Curbside results in Negligible or No Blocking of other vehicles by NV.Said Lane/Tack, Anti-Sway and Anti-Roll Structures all Allow being Run Over by other Traffic and have structures not to be damaged, thus can be crossed over at Crossroads and other entrances and exits along said Lane. NV has enough Doors and is Narrow, hence each Passenger can reach a seat or exit, with No Isle inside it to walk along. So it can have Low Profile, like a Sports Car, some 120 cm tall. Hence it is easy to have Covered Trenches at cross roads for non-stop crossing. Trenches can run along most or all the Track, in which case adherence to streets and roads is relieved. Such Narrow and Shallow Trenches take a tiny fraction of time and costs of Skyways or Subways. Each Passenger thus can have her own door, own seat, in a small Cabin, which can be opened and closed to next Cabin, have reclining seats to join to that of next Cabin to sleep on, have laptop tray, etc. All those make PCTSV much more appealing to user's, even better than private transport. There are many Variations other than above. There is an NV Car for the last mile and or long distance use, which can integrate with NV Public Transit. Also modifications to NVs for use in Cargo and Parcel Transit.

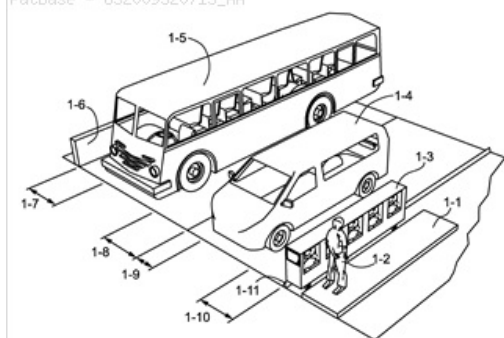
Classifications:

International (IPC 8-9): B60G21/00 B60G21/10 B60L13/00 B60L13/04 B60L15/32 B60R21/13 B60T1/14 B61B13/00 B61D1/02 B61D1/04 B61D13/00 B61F9/00 B62D55/02 B62D55/06 B62D55/18 E01B25/28 E01C1/04 F16D63/00 (Advanced/Invention); B60L13/00 B60L13/04 B60L15/00 B60R21/13 B61B13/00 B61D13/00 B61F9/00 E01B25/00 E01C1/00 F16D63/00 (Core/Invention)
CPC: B60G21/002 B60G21/005 B60G21/103 B60G21/106 B60T1/14 B61D13/00 B61D1/04 B61D1/02 E01C1/04 F16D63/00 B61F9/00 Y02T30/30 B62D55/02 B62D55/06 B62D55/18 B61B13/10 B61D1/06 B62D33/02 B61B13/00 B61B13/04 B61B13/06 B62D24/04 E01B25/28

European: B61B13/00 B61B13/04 B61B13/06 B61F9/00 B62D24/04 E01B25/28 E01C1/04 F16D63/00 Y02T30/30

US: 104/242 104/281 104/306 104/306S 104/307 104/307S 105/343 105/345 180/9.34 280/1 280/1S

PatBase - US2009320713_AA



Family:

Publication number	Publication date	Application number	Application date
EP2318253 A1	20110511	EP20090768655	20090522
EP2318253 A4	20140101	EP20090768655	20090522
GB200908705 A0	20090701	GB20090008705	20090521
GB201216949 A0	20121107	GB20120016949	20090521
GB201217026 A0	20121107	GB20120017026	20090521
GB2461148 A1	20091230	GB20090008705	20090521
GB2492275 A1	20121226	GB20120016949	20090521
GB2492275 B2	20130206	GB20120016949	20090521
GB2493466 A1	20130206	GB20120017026	20090521
US2009320713 AA	20091231	US20090470433	20090521
US2011107939 AA	20110512	US20090001419	20090522
US2014261057 AA	20140918	US20140252062	20140414
US2016311478 AA	20161027	US20160201954	20160705
WO09155685 A1	20091230	WO2009CA00671	20090522

Priority:

US20080075348 20080625	US20080075348P 20080625	US20090155851P 20090226
US20090155851 20090226	US20090178413 20090514	US20090178413P 20090514
US20090470433 20090521	US20090001419 20090522	WO2009CA00671 20090522
US20100001419 20101224	US20140252062 20140414	US20160201954 20160705

Probable Assignee: AMIRI AHMAD

Assignee(s): (std): AMIRI AHMAD

Assignee(s): INVENTALL INC ; AHMAD AMIRI

Inventor(s): (std): AMIRI AHMAD

Inventor(s): AHMAD AMIRI

Agent(s): AHMAD AMIRI

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

194) Family number: 58763543 (US2015083756A)

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Title: DISPENSER PUMP USING ELECTRICALLY ACTIVATED MATERIAL

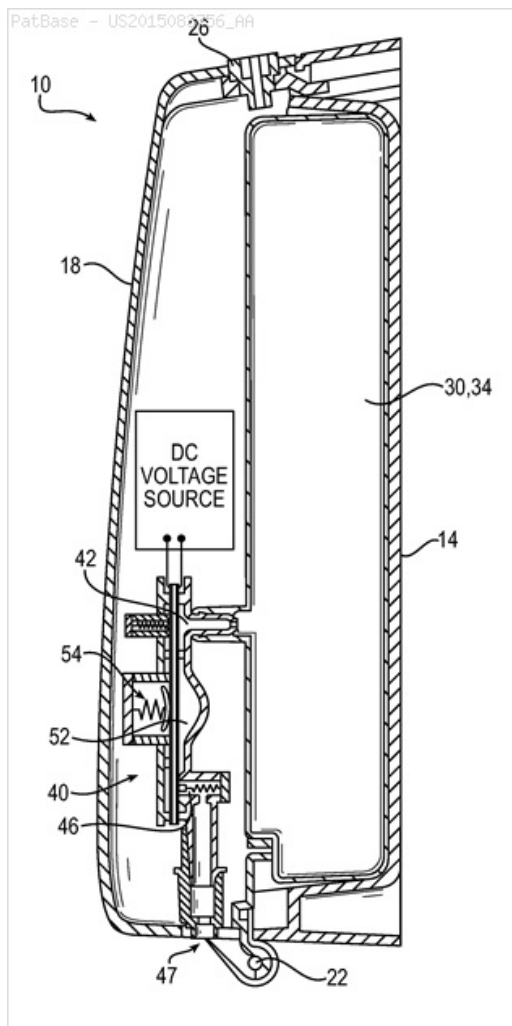
Abstract: Apparatuses and techniques are provided for dispensing fluid from a dispenser that includes a flexible membrane having different levels of pliability according to a voltage applied to the flexible membrane. According to some embodiments, a biasing device, such as a spring, is disposed on a first side of the flexible membrane and is configured to apply pressure to the flexible membrane. When a first voltage is applied to the flexible membrane, the flexible membrane becomes sufficiently pliable to enable the spring to flex the flexible membrane, pushing the flexible membrane into a pumping chamber disposed on the opposite side of the flexible membrane relative to the spring. The fluid is stored in the pumping chamber and the flexing of the flexible membrane causes the pumping chamber to compress. Such compression of the pumping chamber forces the pumping chamber to dispense the fluid through a pump outlet.

Classifications:

International (IPC 8-9): A47K5/12 B05B11/00 B65D37/00 B65D83/00 B65D88/54 B67D7/06 B67D7/62 F04B43/02 F04B43/04 F04B43/09 (Advanced/Invention)

CPC: B05B11/3028 A47K5/1211 B65D83/0055 F04B43/0054 A47K5/1208 F04B43/02 F04B43/04 A47K5/1217 B05B11/3032 B05B11/3052

US: 222/181.3 222/207 222/209 222/214 222/333



Family:

Publication number	Publication date	Application number	Application date
AU2014323512 AA	20160310	AU20140323512	20140918
CA2924662 AA	20160317	CA20142924662	20140918
CA2961731 AA	20170317	CA20152961731	20150319
EP3047148 A1	20160727	EP20140778021	20140918
JP2016531229 T2	20161006	JP20160515451T	20140918
US2015083756 AA	20150326	US20140489850	20140918
US2015190829 AA	20150709	US20150662539	20150319
US2017203316 AA	20170720	US20170477529	20170403
US9517484 BB	20161213	US20150662539	20150319
US9610600 BB	20170404	US20140489850	20140918
WO15042235 A1	20150326	WO2014US56257	20140918
WO16043809 A1	20160324	WO2015US21425	20150319

Priority:

US20130880270P 20130920	US20140489850 20140918	WO2014US56257 20140918
US20150662539 20150319	WO2015US21425 20150319	US20170477529 20170403

Probable Assignee: GOJO IND INC

Assignee(s): (std): GOJO IND INC

Assignee(s): PNC BANK NATIONAL ASSOCIATION ; WEGELIN JACKSON WILLIAM ; PROPER SCOTT THEODORE ; YORK ALEXANDER ; CIAVARELLA NICK ERMANNO ; DUNN JASON THOMAS

Inventor(s): (std): CIAVARELLA NICK ERMANNO ; WEGELIN JACKSON WILLIAM ; YORK ALEXANDER ; PROPER SCOTT THEODORE ; DUNN JASON THOMAS

Agent(s): PETER MAXWELL AND ASSOCIATES; MARKS AND CLERK; ROBIC; PATENTANWALTE LAMBSDORFF AND LANGE; OGURA MASAOKI; OGURA AND CO; COOPER LEGAL GROUP LLC; FISCHER MARCUS A; KILBANE MARTIN M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

195) Family number: 61593550 (US2016029844A)

© PatBase

Title: AUTOMATED FOOD PROCESSING SYSTEM AND METHOD

Abstract: A system for food preparation, including a system body, a blade actuator retained by the system body; a set of blades; a blade platform rotatably mounting the set of blades, the blade platform pivotally connected along a first edge to the

system body and operable between an engaged position and a disengaged position; and a container platform defining a container receptacle, the container platform pivotally connected along a first edge to the system body and operable between a loading position and a processing position.

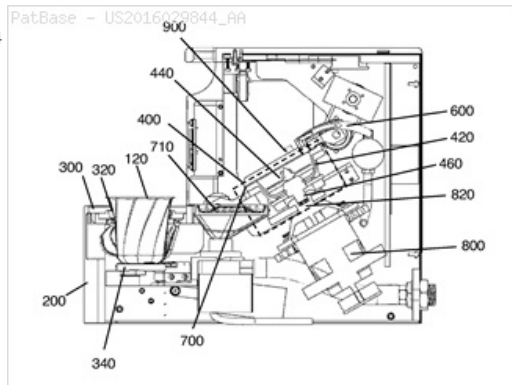
Classifications:

International (IPC 8-9): A47G19/30 A47J31/44 A47J31/60 A47J43/04 A47J43/042 A47J43/044 A47J43/046 A47J43/07 A47J47/00 B01F13/00 B01F15/00 B01F15/06 B01F3/12 B01F7/00 B01F7/18 B02C18/06 B08B9/093 B26D1/12 B65D23/04 (Advanced/Invention); B01F15/00 (Advanced/Non-invention)

CPC: B01F7/0025 B01F15/063 B01F15/00435 B01F2015/062 A47J43/0727 A47J43/042 B01F13/0098 B01F15/0074 B01F15/00876 B01F15/00896 B01F2015/00597 B01F15/00025 B08B9/093 A47J43/0716 A47J43/046 B01F7/1615 B01F13/065 B01F15/00032 B01F15/00357 B01F15/00733 B08B3/02 B08B5/02 B01F2215/0014 A47J43/07 A47J31/60 A47L15/4282 A47L2601/16 B01F3/1271 B01F15/00201 B01F15/00253 B01F15/00344 B01F2215/0022 A47J43/0766 A47J43/0772 A47J43/0777 A47J43/085 B01F13/0277 B01F13/045 B01F15/00779 B01F15/066 B01F2015/00084

US: 1/1 220/669 366/142 366/147 366/247 426/231 D9/429

Locarno class: 09/03



Family:

Publication number	Publication date	Application number	Application date
CA2956573 AA	20170127	CA20152956573	20150724
CA2984449 AA	20171030	CA20162984449	20160429
EP3174442 A1	20170607	EP20150827341	20150724
EP3174442 A4	20180530	EP20150827341	20150724
JP2017528283 T2	20170928	JP20170526037T	20150724
JP2018515202 T2	20180614	JP20170556834T	20160429
US2016029844 AA	20160204	US20150808442	20150724
US2016270598 AA	20160922	US20160143058	20160429
US2016296073 AA	20161013	US20160187396	20160620
US2017172348 AA	20170622	US20170454994	20170309
US2017202397 AA	20170720	US20170474980	20170330
US2017202398 AA	20170720	US20170474989	20170330
US2017202399 AA	20170720	US20170474991	20170330
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Priority:

US20140031076P 20140730	US20140076188P 20141106	US20150133674P 20150316
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Probable Assignee: NORTH AMERICAN ROBOTICS CORP

Assignee(s): (std): NORTH AMERICAN ROBOTICS CORP

Assignee(s): PINEDA ELVINE ; UDOMPHOL MATTHEW ; VENTURE LENDING AND LEASING VIII INC ; VU MY

Inventor(s): (std): PINEDA ELVINE ; UDOMPHOL MATTHEW ; VU MY

Agent(s): BORDEN LADNER GERVAIS LLP; COOPER JOHN; SHABBI S; FOLEY AND LARDNER LLP; JEFFREY; DIANA; KHAN SHABBI S; NIKHIL T; SCHOX JEFFREY; KHAN SHABBI S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

196) Family number: 38521550 (US2010252648A)

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Title: CLIMATE PROCESSOR

Abstract: A climate processor having virtual estuaries which enable large strips of land to act like real water estuaries thereby providing a means of climate control overhead. Said estuaries are also used to prevent polar isotherm migration, melting ice shelves, vortical storm formation and migration from lateral coastal airflow. Said estuaries are formed between two parallel-laid thermal belts formed from artificial surface whitening and jet contrails. The surface whitening can be laid down as a foam or gel and deployed overhead as a high level aviation propellant. The belts may be applied daily and dissipate as the day progresses and subsequently warms. Commercial aircraft flights may be readjusted based on the placement of the artificial estuaries. Also claimed are an aerial deployment system for the foam, a high-level aviation propellant system, a carbon trading system for commercial airlines, a "Russian Doll" gas mixing device and a range of suitable foams.

Classifications:

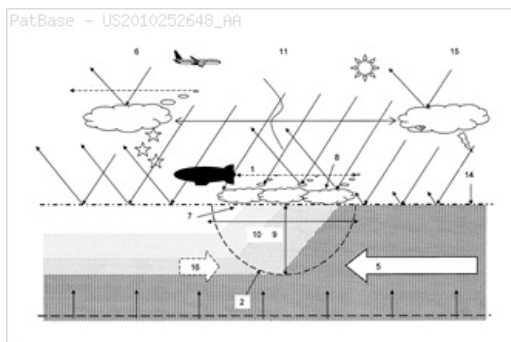
International (IPC 8-9): A01G15/00 B60V1/10

B64C29/00 (Advanced/Invention);

A01G15/00 (Core/Invention)

CPC: A01G15/00 B64C39/064 B64C29/0025 B64C39/10 Y02T50/12 B60V1/10 B64C29/0016 B64C29/0058

European: A01G15/00 B64C29/00B2B B64C39/06B1 B64C39/10



Family:

Publication number	Publication date	Application number	Application date
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US2010252648 AA	20101007	US20100698848	20100202

Priority:

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Probable Assignee: ROBINSON NICHOLAS P

Assignee(s): (std): ROBINSON NICHOLAS ; ROBINSON NICHOLAS P ; ROBINSON NICHOLAS PAUL ; TIMMONS ALBAN

Assignee(s): NICHOLAS PAUL ROBINSON

Inventor(s): (std): ROBINSON NICHOLAS PAUL

Inventor(s): NICHOLAS PAUL ROBINSON

Agent(s): NICHOLAS PAUL ROBINSON

197) Family number: 29581550 (WO03092631A2)

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Title: CYCLIC PEPTIDE ANTI-VIRAL AGENTS AND METHODS

Abstract: The present invention provides a new type of anti-viral agents. Methods of using the present anti-viral agents are also provided.

Classifications:

International (IPC 8-9): C07K5/12 C07K7/64

G01N33/68 (Advanced/Invention);

A61K38/00 (Advanced/Non-invention);

C07K5/00 C07K7/00 G01N33/68 (Core/Invention);

A61K38/00 (Core/Non-invention)

International (IPC 1-7): A61K A61K38/00

CPC: Y02A50/463 C07K5/126 A61K38/00 C07K7/64 G01N33/5005

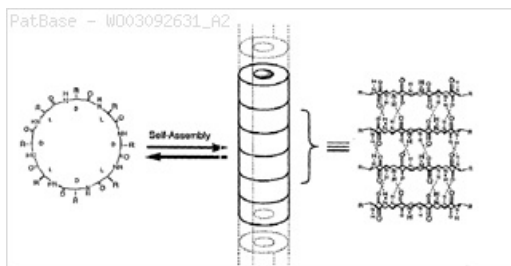
G01N33/5008 G01N33/5014 G01N33/502 G01N33/5088 G01N33/68

G01N2500/00

European: C07K5/12B C07K7/64 G01N33/50D G01N33/50D2

G01N33/50D2D G01N33/50D2E G01N33/50D2J4 G01N33/68

K61K38/00 S01N500/00



Family:

Publication number	Publication date	Application number	Application date
AU2003241384 AA	20031117	AU20030241384	20030506
AU2003241384 AH	20031117	AU20030241384	20030506
WO03092631 A2	20031113	WO2003US14372	20030506
WO03092631 A3	20050428	WO2003US14372	20030506

Priority:

US20020378256P	20020506	WO2003US14372	20030506
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Probable Assignee: SCRIPPS RESEARCH INST

Assignee(s): (std): GHADIRI M REZA ; SCRIPPS RESEARCH INST

Assignee(s): THE SCRIPPS RESEARCH INSTITUTE ; GHADIRI M

Inventor(s): (std): GHADIRI M REZA
Inventor(s): M ; M REZA GHADIRI ; GHADIRI M
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD ME MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

198) Family number: 30560556 (US2002007510A)

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Title: Smart bathroom fixtures and systems

Abstract: Image sensors, processors, and control systems facilitate automatic sensor operated bathroom fixtures, systems for controlling bathroom fixtures, and methods of bathroom fixture design, control, and management, as well as the control and management of hygiene and water resources. The networked plumbing systems also help facility managers and law enforcement personnel monitor the operation of various bathrooms in a facility or at remote facilities. Image sensors are used for controlling several showers, faucets, urinals, or water closets in large bathroom complexes. Image based intelligent bathroom fixtures and systems help enhance the privacy of users by ensuring that law abiding users need not be disturbed by police foot patrols into the restroom areas, or by security guards entering simply to make inspections. An aquionics bathroom control system of the invention maintains the cleanliness, safety, security, and privacy of the occupants in a smart bathroom environment. Additionally, in some embodiments, a bathroom facility of the invention may be used for mass decontamination during times of emergency for processing victims of a nuclear, biological, or chemical incident. Once ubiquitously installed for routine control of fixtures, the apparatus facilitates a secondary usage such as monitoring by triage staff, medical personnel, decontamination officers, or law enforcement officers during times of terrorist consequence management.

Classifications:

International (IPC 8-9): A45C1/06 A45C13/18 A47K3/28 A61B5/00 A61F2/14 A61H33/00 A63F13/80 A63F9/00 A63F9/24 A63H30/04 B62D1/00 B64F1/36 E03C1/05 E03D3/00 E03D5/10 E03D9/00 E04H1/12 E05B47/00 E05B65/00 G02B23/12 G02B27/00 G02B27/01 G02B27/18 G02B27/20 G02C1/00 G02C11/00 G02C11/04 G02C11/06 G02C7/02 G02C7/04 G02C7/10 G02C9/00 G02F1/01 G03B1/00 G03B13/02 G03B13/04 G03B13/06 G03B13/16 G03B15/02 G03B15/05 G03B15/08 G03B17/18 G03B17/48 G03B17/56 G03B19/00 G03B29/00 G03B33/08 G03B43/00 G03B7/00 G04G21/04 G04G9/00 G04G99/00 G05B11/16 G05B19/00 G05B23/00 G05B23/02 G05D1/00 G05D7/06 G06F1/16 G06F17/00 G06F19/00 G06F3/00 G06F3/01 G06F3/02 G06F7/00 G06F7/04 G06K19/00 G06K9/00 G06K9/20 G06K9/36 G06T1/00 G06T5/50 G06T7/00 G07C9/00 G07F7/02 G07F7/12 G07G1/00 G07G1/12 G08B13/00 G08B13/196 G08B15/00 G08B19/00 G08B21/00 G08B21/02 G08B21/08 G08B23/00 G08B25/00 G08B29/00 G08C19/00 G09G3/00 G09G3/32 G09G5/00 G21F9/00 H04B1/00 H04B3/00 H04L12/16 H04L9/14 H04L9/28 H04L9/32 H04N5/00 H04N5/222 H04N5/225 H04N5/232 H04N5/243 H04N5/247 H04N5/30 H04N5/335 H04N5/77 H04N7/00 H04N7/14 H04N7/15 H04N7/18 H04N9/12 H04Q1/00 H04Q9/00 H04R1/40 H04R25/00 (Advanced/Invention); A63H30/04 G02B27/00 G06T1/00 H04N5/92 H04N7/15 (Advanced/Non-invention); A45C1/00 A45C13/00 A47K3/28 A61B5/00 A61F2/14 A63F9/00 A63H30/00 B62D1/00 B64F1/00 E03D3/00 E03D5/00 E03D9/00 E04H1/12 E05B47/00 E05B65/00 G02B27/00 G02B27/01 G02B27/18 G02B27/20 G02C1/00 G02C11/00 G02C11/04 G02C11/06 G02C7/02 G02C7/04 G02C7/10 G02C9/00 G02F1/01 G03B1/00 G03B13/02 G03B13/04 G03B13/06 G03B13/16 G03B15/02 G03B15/05 G03B15/08 G03B17/48 G03B17/56 G03B19/00 G03B29/00 G03B33/08 G05B11/16 G05B19/00 G05B23/00 G05B23/02 G05D7/06 G06F1/16 G06F15/00 G06F17/00 G06F17/40 G06F17/60 G06F3/00 G06F3/02 G06F3/14 G06F7/00 G06F7/04 G06K19/00 G06K5/00 G06K9/00 G06K9/20 G06K9/36 G06T1/00 G06T5/50 G06T7/00 G07C9/00 G07F7/00 G07G1/00 G07G1/12 G08B13/00 G08B19/00 G08B21/00 G08B21/02 G08B21/08 G08B23/00 G08B25/00 G08B29/00 G08C19/00 G09G3/00 G09G3/32 G09G5/00 H04B1/00 H04B3/00 H04L12/16 H04L9/14 H04L9/28 H04L9/32 H04N5/00 H04N5/222 H04N5/225 H04N5/232 H04N5/243 H04N5/247 H04N5/30 H04N5/77 H04N7/00 H04N7/15 H04N7/18 H04N9/12 H04Q1/00 H04Q9/00 H04R1/40 H04R25/00 (Core/Invention); A63H30/00 (Core/Non-invention)
International (IPC 1-7): A45C1/06 A45C13/18 A47K3/28 A61B5/00 A61F2/14 A61H33/00 A63F9/00 A63F9/24 B62D1/00 B64F1/36 E03C1/05 E03D3/00 E03D5/10 E03D9/00 E05B47/00 E05B65/00 G02B23/12 G02B27/00 G02B27/01 G02B27/18 G02B27/20 G02C1/00 G02C11/00 G02C11/04 G02C11/06 G02C7/02 G02C7/04 G02C7/10 G02C9/00 G02F1/01 G03B1/00 G03B13/02 G03B13/04 G03B13/06 G03B13/16 G03B15/02 G03B15/05 G03B15/08 G03B17/48 G03B17/56 G03B19/00 G03B29/00 G03B33/08 G05B11/16 G05B19/00 G05B23/00 G05B23/02 G05D7/06 G06F1/16 G06F15/00 G06F17/00 G06F17/40 G06F17/60 G06F3/00 G06F3/02 G06F3/14 G06F7/00 G06F7/04 G06K19/00 G06K5/00 G06K9/00 G06K9/20 G06K9/36 G06T1/00 G06T5/50 G06T7/00 G07G1/00 G07G1/12 G08B13/00 G08B19/00 G08B21/00 G08B21/02 G08B21/08 G08B23/00 G08B25/00 G08B29/00 G08C19/00 G09G3/00 G09G3/32 G09G5/00 H04B1/00 H04B3/00 H04L12/16 H04L9/14 H04L9/28 H04L9/32 H04N5/00 H04N5/222 H04N5/225 H04N5/232 H04N5/243 H04N5/247 H04N5/30 H04N5/77 H04N7/00 H04N7/15 H04N7/18 H04N9/12 H04Q1/00 H04Q9/00 H04R1/40 H04R25/00
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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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CA20012364080	20011205	CA20022351660	20020202	CA20022414397	20021231

Probable Assignee: MANN WILLIAM S G

Assignee(s): (std): MANN W S G ; MANN W STEPHAN G ; MANN W STEPHEN G ; STEPHEN G MANN W ; MANN W STEVE G ; MANN WILLIAM S G ; MANN WILLIAM STEPHEN GEORGE ; MANN STEVE

Assignee(s): W STEPHEN G MANN ; MANN W ; WILLIAM STEPHEN GEORGE MANN

Inventor(s): (std): MANN W STEPHEN G ; MANN W STEVE G ; MANN WILLIAM STEPHEN GEORGE ; W STEPHEN G MANN ; MANN STEVE ; MANN STEVE G

Inventor(s): MANN W ; WILLIAM STEPHEN GEORGE MANN

Agent(s): SMART AND BIGGAR; NA

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

199) Family number: 28038558 (US2003019536A)

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Title: APPARATUS AND METHOD TO MONITOR THE USAGE OF A NETWORK SYSTEM OF PERSONAL HAND SANITIZING DISPENSERS

Abstract: Disclosed are a type of institutional or hospital network system of personal, portable hand cleaning agent dispensers and a method to record and report their specific usage by healthcare workers and patients of the institution or hospital through a dispenser control apparatus having a computer processor memory. In one form, each dispenser has an identifier unique to it and shared with no other dispenser. Each dispenser contains hand cleaning fluid agent in an amount sufficient to provide multiple shots of predetermined amount (or unit dose size) upon pressing a pad on the dispenser to dispense one shot per press. Each worker has an identifier unique to that worker. In one form, dispensers are refillable and are issued from and returned to a control station that refills the dispensers and for each of them, records into a computer, the dispenser by that dispenser's unique identifier, the worker by that worker's unique identifier, and the quantity of hand cleaning fluid used by said dispenser, and reports from the data collected by said computer, who used what dispenser, during what time frame, and how much hand cleaning fluid was used by said worker using said dispenser during said time frame. In other forms, the dispensers have replaceable throw-away, agent-containing cartridges of single or multiple storage compartments, the dispensers being refillable with new cartridges from control and release stations.

Classifications:

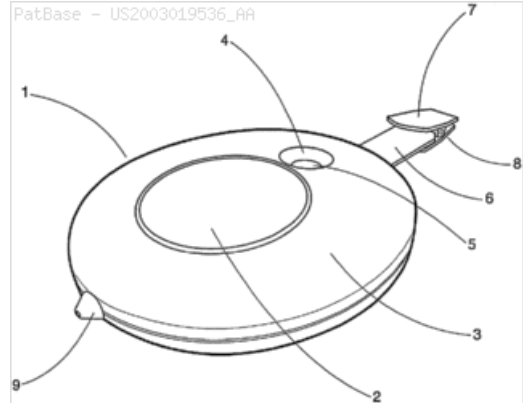
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US: 141/102 141/114 141/18 141/18P 141/21 141/25 141/94 222/105 222/175 222/325



Family:

Publication number	Publication date	Application number	Application date
US2003019536 AA	20030130	US20010915606	20010726
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US7597122 BA	20091006	US20050129643	20050513
WO03010083 A1	20030206	WO2002US21100	20020702

Priority:

US20010915606 20010726 US20040016644 20041207 US20050129643 20050513

Probable Assignee: SAGE PRODUCTS LLC

Assignee(s): (std): SMITH JUDSON L

Assignee(s): BARCLAYS BANK PLC ; SAGE PRODUCTS INC ; SAGE PRODUCTS LLC ; SMITH INTELLECTUAL PROPERTY LLC

Inventor(s): (std): SMITH JUDSON L

Agent(s): WOODARD EMHARDT MORIARTY MCNETT AND HENRY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE

200) Family number: 30010565 (US5165577A)

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Title: DISPOSABLE PLASTIC LIQUID PUMP

Abstract: A disposable plastic pump for dispensing liquids is disclosed which comprises three basic unitary all plastic elements: a chamber forming body having an open outer end and an inner end in fluid communication with a liquid reservoir, a one-way valve located at the inner end of the chamber between the reservoir and the chamber permitting fluid flow only from the reservoir into the chamber, and a piston formed to slidably fit into the chamber. The piston comprises a stem on which is located an inwardly located flexing element serving as a one-way valve to permit fluid flow outwardly past the flexing element and a sealing element located outwardly of the flexing element. A channel is provided from an inlet on the piston between the flexing element and the sealing element through which the dispensed liquid flows.

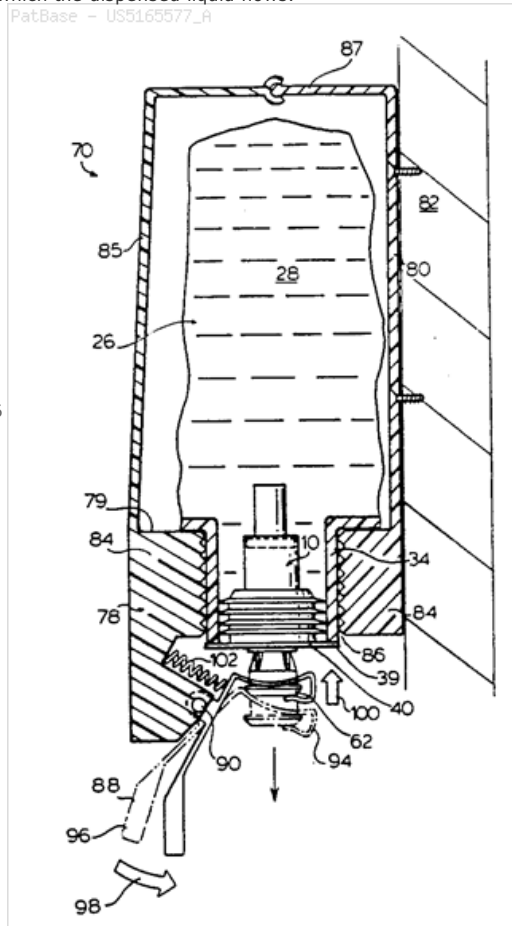
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**Family:**

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Priority:

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Probable Assignee: HYGIENE TECHNIK INC

Assignee(s): (std): HEINER OPHARDT ; HYGIENE TECHNIK INC ; OPHARDT HEINER

Assignee(s): HYGIENE TECHNIK INC BEAMSVILLE ; HYGIENE TECHNIK INC BEAMSVILLE ONTARIO CA

Inventor(s): (std): HEINER OPHARDT ; OPHARDT HEINER

Inventor(s): OPHARDT HEINER VINELAND ONTARIO LOR 2C0 CA

Agent(s): HODGKINSON MCINNES PATENTS; IP SOLVED ANZ PTY LTD; RICHES MCKENZIE AND HERBERT LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG US UZ VN

201) Family number: 58803576 (US2016228924A)

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Title: DEVICES AND METHODS FOR DISPENSING FLUIDS AND WIPING SURFACES

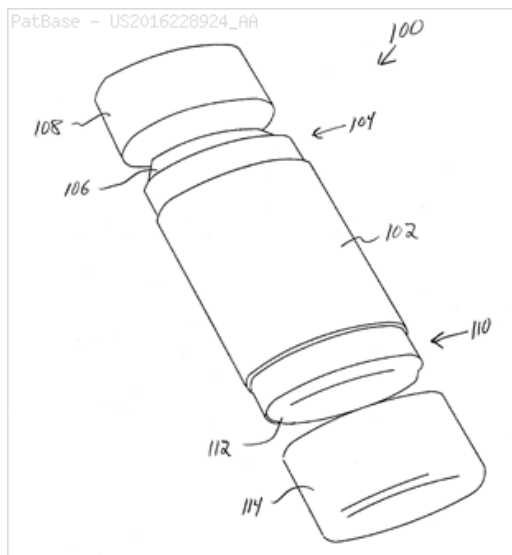
Abstract: The disclosure herein provides devices and methods for dispensing fluids and wiping surfaces. A cleaning device comprises a housing comprising an outer housing portion and an inner housing portion, the outer housing portion configured to be grasped and manipulated by a user; a dispenser comprising a porous or fluid permeable material, the dispenser positioned at least partially within a dispenser cavity of the inner housing portion; and a wiper comprising a wiping surface, wherein at least a portion of the wiper is positioned within a wiper cavity of the outer housing portion.

Classifications:

International (IPC 8-9): A47L13/10 A47L25/00 B05C17/005
B08B1/00 (Advanced/Invention)

CPC: B08B1/006 B05C17/00596 A47L25/00

US: 401/37



Family:

Publication number	Publication date	Application number	Application date
US2016228924 AA	20160811	US20140022916	20140919
US10052665 BB	20180821	US20140022916	20140919
WO15042463 A2	20150326	WO2014US56648	20140919
WO15042463 A3	20150618	WO2014US56648	20140919

Priority:

US20130880744P 20130920 US20140022916 20140919 WO2014US56648 20140919

Probable Assignee: NORILLA LLC

Assignee(s): (std): NORILLA LLC

Assignee(s): HANS ALL LLC

Inventor(s): (std): BUSHAW SCOTT MARTIN ; BUSHAW JEFF

Agent(s): KNOBBE MARTENS OLSON AND BEAR LLP; ALTMAN DANIEL E

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

202) Family number: 30085576 (US2001053334A)

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Title: MICROARRAY FABRICATION TECHNIQUES AND APPARATUS

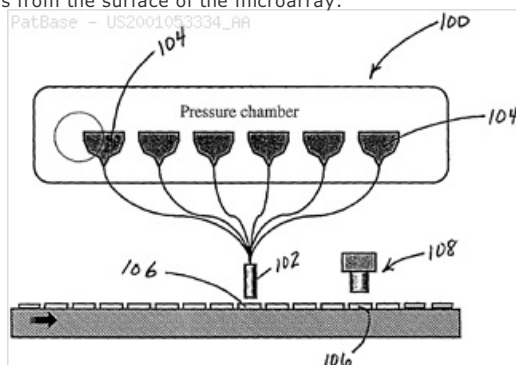
Abstract: Disclosed is a microarray printing system and methods of printing probe microarrays. The system has a print-head formed of one or more capillary bundle, such as light-guiding capillaries. The bundles may especially be bundles of capillaries that provide a large number of probes on the surface of a substrate. Methods of registering or correlating the distal and proximal ends of the capillaries are also provided. Further, the invention provides methods and equipment for identifying defective microarrays that are missing one or more probes from the surface of the microarray.

Classifications:

International (IPC 8-9): A61K31/137 A61K31/7036 A61K9/12 A61M11/00 A61M11/06 A61M15/00 A61M16/00 A61M16/04 A61M16/08 A61M16/10 A61P11/06 A61P11/08 A61P31/04 A62B7/00 A62B9/06 B01J19/00 B01J4/00 B01L3/00 B01L3/02 B01L9/00 B41J2/01 B81B1/00 C07B61/00 C12M1/00 C12M1/34 C12N15/09 C12Q1/68 C40B40/06 C40B40/10 C40B60/14 G01N21/25 G01N21/64 G01N33/48 G01N33/53 G01N33/543 G01N35/10 G01N37/00 (Advanced/Invention); A61M11/00 A61M16/00 A61M16/04 A61M16/08 A61M16/10 B01J19/00 B01J4/00 B41J2/01 B81B1/00 C12M1/00 C12N15/09 C12Q1/68 C40B40/06 C40B40/10 C40B40/12 C40B50/14 C40B60/14 G01N33/53 G01N35/10 G01N37/00 (Advanced/Non-invention); A61M11/00 A61M15/00 A61M16/00 A61M16/04 B01J19/00 B01L3/00 B01L3/02 B01L9/00 C07B61/00 C12M1/34 C12Q1/68 G01N21/25 G01N21/64 G01N33/48 (Core/Invention); A61M16/08 A61M16/10 B81B1/00 C40B40/04 C40B50/14 C40B60/14 G01N35/10 (Core/Non-invention); A61H (Subclass/Invention)

International (IPC 1-7): A61H A61H0/00 A61M11/00 A61M16/00 A61M16/04 A62B7/00 A62B9/06 B01J16/00 B01J19/00 B01J4/00 B01L1/00 B01L3/00 B01L3/02 B05D3/00 B41J2/01 B41K1/38 B81B1/00 C07H21/02 C07H21/04 C12M1/00 C12M1/34 C12M3/00 C12N15/09 C12Q1/68 G01N1/00 G01N33/48 G01N33/53 G01N33/543 G01N33/545 G01N37/00 G02B6/00 G02B6/02

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Family:

Publication number	Publication date	Application number	Application date
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CA20152485340	20150703				

Probable Assignee: RESEARCH FOUNDATION OF STATE UNIV OF NEW YORK

Assignee(s): (std): BUTLER JOHN ; CHEN ANTHONY ; CHEN ANTHONY C ; CHEN SHIPING ; GENOSPECTRA INC ; RESEARCH FOUNDATION OF STATE UNIV OF NEW YORK ; LUO YULING ; QAZEN MASOUD ; NIKIFOROV THEO ; NGUYEN QUAN ; RES FOUNDATION ; PALMER LUCY B ; SMALDONE GERALD ; XIAO JIANMING ; THIELE JOCHEN ; STATE UNIVERTSITY OF NEW YORK ; SMALDONE GERALD C ; STATE UNIV OF NEW YORK ; UNIV NEW YORK STATE RES FOUND ; UNIV NEW YORK ; RES FOUNDATION FOR STATE UNIV OF NEW YORK

Assignee(s): RESEARCH FOUNDATION STATE UNIV OF NEW YORK AT STONY BROOK ; RESEARCH FOUNDATION ; THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK ; STATE UNIV OF NEW YORK AT STONY BROOK STONEY BROOK ; THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW ; THE RESEARCH FOUNDATION ; THE STATE UNIVERSITY OF NEW YORK AT STONY BROOK ; THE STATE UNIVERTSITY OF NEW YORK ; THE STATE UNIVERSITY OF NEW YORK ; STATE UNIV ; STATE UNIV OF NEW YORK AT STONY BROOK ; RESEARCH FOUNDATION OF STATE UNIV NEW YORK ; NGUYEN HOANG M ; QAZAN MASOUD ; SHEN ZHIYONG ; RESEARCH FOUNDATION STATE UNIV ; RESEARCH FOUNDATION OF STATE UNIV ; RESEARCH FOUNDATION STATE UNIV OF NEW YORK AT STON ; RESEARCH FOUNDATION FOR STATE UNIV OF NEW YORK ; LI KAIJUN

Inventor(s): (std): BUTLER JOHN ; CHEN ANTHONY ; CHEN ANTHONY C ; CHEN SHIPING ; LI KAIJUN ; NGUYEN HOANG M ; NGUYEN QUAN ; NIKIFOROV THEO ; LUO YULING ; PALMER LUCY B ; QAZAN MASOUD ; QAZEN MASOUD ; SHEN ZHIYONG ; SHIPING CHEN ; SMALDONE GERALD ; SMALDONE GERALD C ; THIELE JOCHEN ; XIAO JIANMING ; YULING LUO

Inventor(s): PALMER LUCY B NISSEQUOGUE ; MASOUD QAZEN ; PALMER LUCY ; LUCY B PALMER ; ANTHONY C CHEN ; ANTHONY CHEN ; GERALD C SMALDONE ; JIANMING XIAO ; JOCHEN THIELE ; JOHN BUTLER ; CHEN ANTHONYC

Agent(s): FB RICE ; FB RICE PTY LTD ; SPRUSON AND FERGUSON ; BORDEN LADNER GERVAIS LLP ; SMART AND BIGGAR ; GLAWÉ DELFS MOLL PARTNERSCHAFT MBB VON PATENT U RECHTSANWAELTEN ; GLAWÉ DELFS MOLL ; KINSLER MAUREEN CATHERINE ; TSURUTA JUNICHI ; NISHIYAMA MASAYA ; HIGUCHI SOTOJI ; ISHIDA TAKASHI ; SHIMIZU HATSUSHI ; CHANG SOO KIL ; KIM YOUNG ; JINSANG JEONG ; LEE KI SUK ; PARK JONG HYEOK ; JOHN S ROBERTS MEDLEN AND CARROLL LLP ; MEDLEN AND CARROLL LLP ; MORRISON AND FOERSTER LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Abstract: A shaver for shaving hair from skin includes a cutter head having at least one cutter unit and at least one relatively sharp scraper edge located on the cutter head so as to be pressable into the skin forwardly of the cutter unit to erect hairs in the skin and to tauten the skin in advance of the cutter unit as the cutter head is moved across the skin.

Classifications:

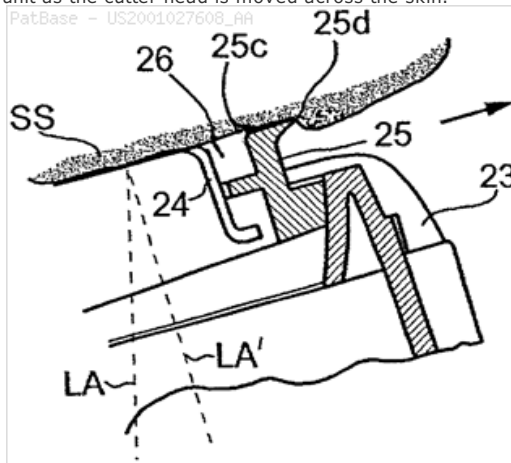
International (IPC 8-9): B26B19/14 B26B19/38 (Advanced/Invention); B26B19/14 (Core/Invention)

International (IPC 1-7): B26B19/14 B26B19/16 B26B19/42

CPC: B26B19/14 B26B19/143 B26B19/145 B26B19/3813

European: B26B19/14 B26B19/14B B26B19/14C

US: 30/34.2 30/34.200P 30/41 30/41S 30/43.6 30/43.600P 30/43.600S 30/45 30/45S



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: BARISH DAN

Assignee(s): (std): BARISH BENJAMIN B ; BARISH BENJAMIN J ; BENJAMIN J BARISH

Assignee(s): BARISH DAN

Inventor(s): (std): BARISH BENJAMIN J ; BENJAMIN J BARISH

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

204) Family number: 6785592 (US4085867A)

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Title: Dispensing containers and holder

Abstract: The dispensing container defines a main chamber and integrally formed pump chamber beneath the main chamber. A first check valve is positioned between the main chamber and pump chamber within the container and a second combination pressure relief and check valve is provided at the lower end of the pump chamber. The walls of the pump chamber are flexible and may be manually squeezed to dispense liquid in the pump chamber through the second check valve, releasing of the walls then drawing more liquid from the main chamber into the pump chamber. The dispenser container design is such that a plurality of such containers can be conveniently coupled to a track in horizontal, side-by-side relationship for mounting on a bathroom wall.

Classifications:

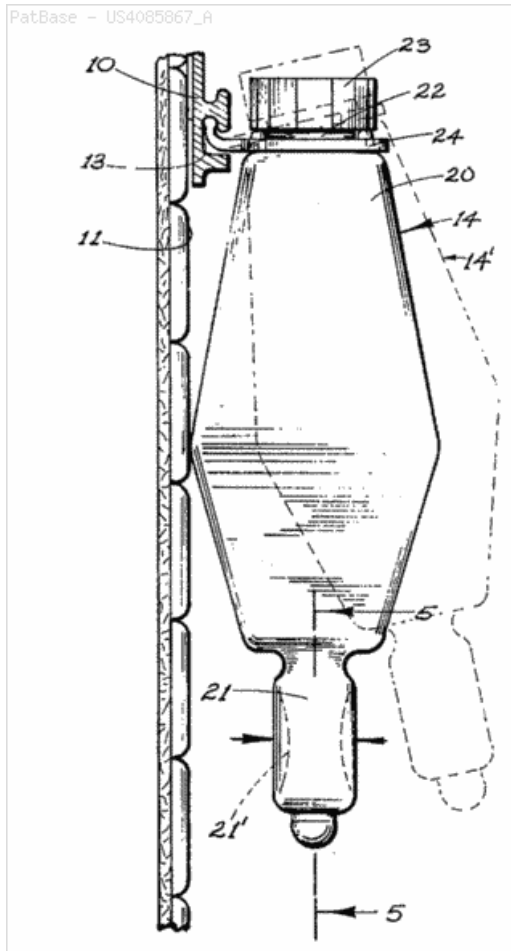
International (IPC 8-9): A47K5/122 G01F11/08 (Advanced/Invention); A47K5/00 G01F11/02 (Core/Invention)

International (IPC 1-7): B67D3/00

CPC: A47K5/122 G01F11/08

European: A47K5/122 G01F11/08

US: 222/181 222/181.3 222/207 248/215 248/222.51 248/223.41 248/298.1

**Family:**

Publication number	Publication date	Application number	Application date
US4085867 A	19780425	US19760708373	19760726

Priority:

US19760708373 19760726

Probable Assignee:

HELLER PETER VAN NEST

Assignee(s): (std):

HELLER PETER VAN NEST

Inventor(s): (std):

HELLER PETER VAN NEST

205) Family number: 57312598 (US2014248818A)

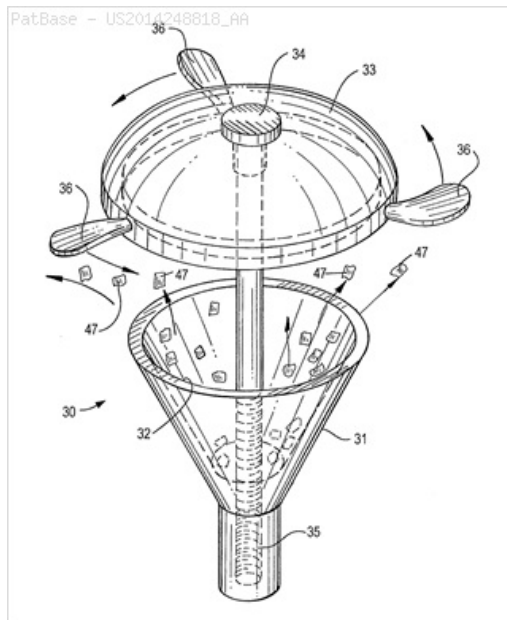
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Title: AERODYNAMIC DEVICE FOR USE IN ORGANIZING AND HOLDING FOOD AND LIQUID SUBSTANCES AND EATING UTENSILS AND FOR SUBSEQUENT RECREATIONAL USE

Abstract: An aerodynamic device includes a plate having a generally circular periphery, a central portion, and a plurality of compartments for holding food substances during a dining activity. Each compartment is bounded by curved ribs, each rib extending continuously from the central portion along an arcuate path to the periphery. All of the ribs are aerodynamically shaped to provide lift during a subsequent recreational activity in which the device is thrown through the air. An insert is mounted in the central portion for holding a dining item, e.g., a drink container, for use during the dining activity, and a different recreational item for use during the recreational activity.

Classifications:

International (IPC 8-9): A47B85/00 A47F1/12 A47G19/02
A47G19/06 A47G19/08 A47G21/00 A47G21/02 A47G21/04
A47G21/14 A47G21/18 A47G23/02 A47G23/06 A47J43/00
A63H27/00 A63H33/00 A63H33/40 B26B3/02 (Advanced/Invention);
A47G19/02 (Advanced/Non-invention)
CPC: A47J43/00 A63H33/40 A47G21/001 A47G2023/0666 B26B3/02
A47G19/065 A47G23/0625 A47F1/125 A47G19/06 A47G2200/106
US: 1/1 108/27 108/28 220/574 294/24 294/26.5 446/46 446/47



Family:

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Priority:

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Probable Assignee: SHENDELMAN LEONID

Assignee(s): (std): SHENDELMAN LEONID

Inventor(s): (std): SHENDELMAN LEONID

Agent(s): KIRSCHSTEIN ET AL; KIRSCHSTEIN ISRAEL SCHIFFMILLER AND PIERONI PC

206) Family number: 2943598 (WO9008497A1)

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Title: DISPENSING DEVICE FOR MATERIALS IN LIQUID OR PASTE FORM

Abstract: Source: WO9008497A1 [FR] Un distributeur de desinfectants comprend une fixation murale (1), un chapeau (20), une insertion (2), un reservoir (49) et un module (21) agence au fond (13) de l'insertion (2). La partie superieure du module (21) comprend un tube (22) qui entoure un support (27) pour une lame (26) utilisee pour decouper la pellicule de couverture (51) du col (50) du reservoir (49). Le tube (22) est pourvu de gradins exterieurs annulaires (123) sur lesquels repose un soufflet (23) pourvu d'un rebord d'etancheite (124). Le rebord d'etancheite (124) fait saillie dans l'espace interieur (125) du tube (122), scellant ainsi le col (50) du reservoir (49).

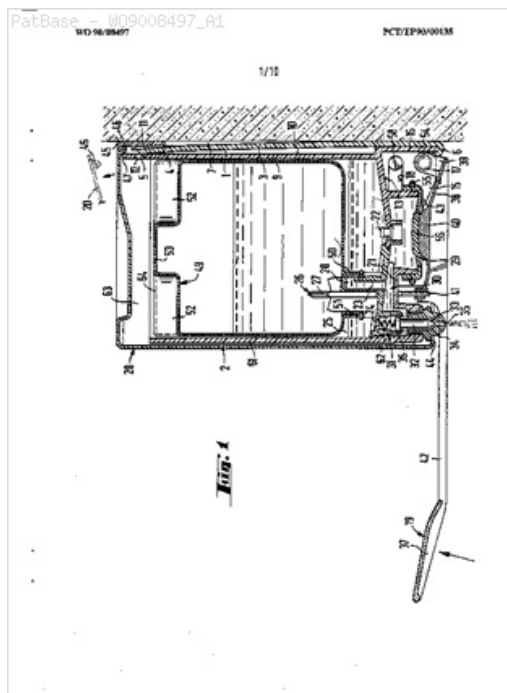
Classifications:

International (IPC 8-9): A47K5/12 (Advanced/Invention); A47K5/00 (Core/Invention)

International (IPC 1-7): A47K5/12 B65D25/38 B65D83/00

CPC: A47K5/1208 A47K5/1217

European: A47K5/12C2 A47K5/12E



Family:

Publication number	Publication date	Application number	Application date
AT91862 E	19930815	AT19900902239T	19900125
DE3902476 A1	19900802	DE19893902476	19890127
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DK0455679 T3	19930830	DK19900902239T	19900125
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EP0455679 B1	19930728	EP19900902239	19900125
WO9008497 A1	19900809	WO1990EP00135	19900125

Priority:

DE19893902476 19890127 DE19905002113 19900125 WO1990EP00135 19900125
EP19900902239 19900125

Probable Assignee: FELDMUEHLE AG

Assignee(s): (std): FELDMUEHLE AG ; FELDMUEHLE GMBH SCOTT ; SCOTT FELDMUEHLE GMBH SCOTT

Assignee(s): SCOTT FELDMUEHLE GMBH ; SCOTT FELDMUEHLE GMBH 4000 DUESSELDORF DE ; FELDMUEHLE AG 4000 DUESSELDORF DE ; FELDMUEHLE AKTIENGESELLSCHAFT

Inventor(s): (std): WIRTZ ODENTHAL BERNHARD

Inventor(s): WIRTZ ODENTHAL BERNHARD DIPL BETRIEBSW ; WIRTZ ODENTHAL BERNHARD W 4052 KORSCHENBROICH 2 DE

Designated states: AT BE CH DE DK ES FR GB IT LI LU NL NO SE US

207) Family number: 20249598 (US5474184A)

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Title: PROCESS FOR PRODUCING DETERGENT AND THE LIKE IN REUSABLE AND RECYCLABLE RECEPTACLES, RECYCLABLE AND REUSABLE RECEPTACLES AND APPARATUS FOR USE OF FILLED RECEPTACLES

Abstract: A recyclable, reusable container includes a unitary molded thermoplastic container body having a closed bottom end, an opposed open top and a sidewall tapering upwardly and outwardly from the bottom end to the top end at a stacking angle of from about 2 DEG to about 7 DEG. The bottom includes an inwardly and upwardly directed dome-shaped region therein including a handle grip portion defined in an outwardly facing side of the dome-shaped region. The container body defines an open smoothly rounded container cavity without any undercut portions which is adapted to storablely receive and completely discharge material contents placed therein for storage and dispensing. A stepped outward shoulder is provided adjacent the top end to define an outwardly stepped sidewall portion provided with external threads. An internally threaded cover member is releasably engageable over the top end of the container body to selectively close off the top opening of the container. The container bodies and cover members are configured so that they may be stacked in telescoping nested relationship in a manner providing a minimum of stack height for storage space saving advantages. The container and cover member are both molded from high grade thermoplastic molding materials adapted for reuse and recycling. The new and improved containers are specially suited for use in dispensing detergents and other cleaning agents employed in automated flush dispensing systems.

Classifications:

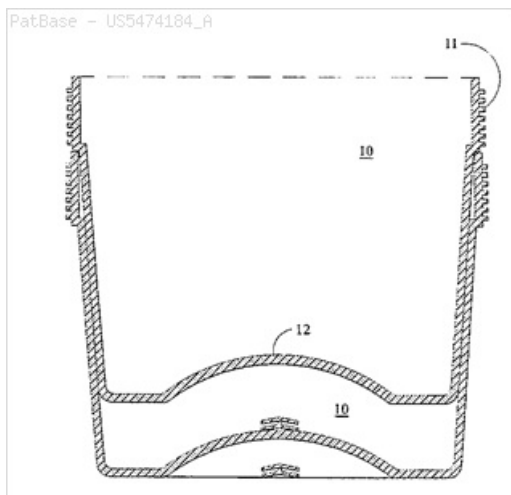
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C11D17/04 (Advanced/Invention); A47L15/44 A61L2/26 B01F1/00 B65D21/02 B65D25/22 B65D25/28 C11D17/00 C11D17/04 (Core/Invention)

International (IPC 1-7): A01N25/08 A01N25/34 A61L2/26 B65D21/02 B65D21/04 B65D25/22 B65D25/28 B65D47/32 B65D53/00 B65D65/40 B65D83/00 B65D85/84 C11D1/00 C11D1/66 C11D11/00 C11D17/00 C11D17/04 C11D3/04 C11D3/06 C11D3/10 C11D3/20 C11D3/37 C11D3/39 C11D3/395 C11D3/40 C11D3/48 C11D3/50 D06F39/02 G01D1/18 G01F23/22

CPC: Y02W30/807 C11D17/0073 A47L15/4436 A61L2/26 B01F1/0027 B65D25/2882 C11D17/0047 C11D17/0065 C11D17/041 A61L2/16

European: A47L15/44C A61L2/26 B01F1/00F2 B65D25/28D C11D17/00H C11D17/00H8 C11D17/00H8T C11D17/04B



Family:

Publication number	Publication date	Application number	Application date
AT171722 E	19981015	AT19920107579T	19920505
CA2130189 AA	19940815	CA19922130189	19921105
DE4204489 C1	19930429	DE19924204489	19920214
DE4204489 C2	19970724	DE19924204489	19920214
DE59209514 D1	19981105	DE19925009514	19920505
DE9301800 U1	19930819	DE19930001800U	19930209
DK50796 A	19960426	DK19960000507	19960426
DK93494 A	19940812	DK19940000934	19940812
EP0555514 A2	19930818	EP19920107579	19920505
EP0555514 A3	19941019	EP19920107579	19920505
EP0555514 B1	19980930	EP19920107579	19920505
HU69313 A2	19950928	HU19940002258	19921105
HU9402258 A0	19941128	HU19940002258	19921105
MX9300750 A1	19931101	MX19930000750	19930211
US5474184 A	19951212	US19940324909	19941018
US5573698 A	19961112	US19940290852	19941024
WO9316166 A2	19930819	WO1992EP02540	19921105
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Priority:

DE19924204489 19920214 DE19925009514 19920505 WO1992EP02540 19921105
US19930017877 19930216 US19940324909 19941018

Probable Assignee: ECOPACK GMBH AND CO

Assignee(s): (std): ECOPACK GMBH AND CO ; ECOSAN HYGIENE GMBH

Assignee(s): ECOSAN HYGIENE GMBH 63450 HANAU DE ; ECOSAN HYGIENE GMBH 6450 HANAU DE ; RIEBER WOLFRAM ; ECOSAN HYGIENE GMBH ET AL ; SANDER RICHARD ; MANDLER GUNTER ; KOMPAN JURGEN ; ECOPACK GMBH

Inventor(s): (std): GUNTER MANDLER ; JURGEN KOMPAN ; KOMPAN JUERGEN ; RICHARD SANDER ; RIEBER WOLFRAM ; RIEBER WOLFRAM DIPL CHEM DR RE ; MANDLER GUENTER ; MANDLER GUNTER ; RIEBER WOLFRAM DR RER NAT DIPL ; SANDER RICHARD ; SANDER RICHARD DIPL CHEM DR IN ; SANDER RICHARD DR ING DIPL CHE ; WOLFRAM RIEBER ; KOMPAN JURGEN

Inventor(s): SANDER RICHARD DR ING DIPL CHEM W 7507 PFINZTAL BE ; RIEBER WOLFRAM DR RER NAT DIPL CHEM W 6708 NEUHOFE ; MANDLER GUNTER W 6301 HEUCHELHEIM DE ; KOMPAN JUERGEN W 6725 ROEMERBERG 2 DE ; KOMPAN J AND E UML U AND EE RGEN ; RIEBER WOLFRAM DR RER NAT DIPL C ; SANDER RICHARD DR ING DIPL CHEM ; SANDER RICHARD DIPL CHEM DR ING ; RIEBER WOLFRAM DR RER NAT DIPL CHEM ; MANDLER GUNTER 6301 HEUCHELHEIM DE ; RIEBER WOLFRAM DIPL CHEM DR RER NAT ; RIEBER WOLFRAM DIPL CHEM DRRERNAT ; KOMPAN JUERGEN 6725 ROEMERBERG DE

Agent(s): KENT AND EDGAR

Designated states: AT BE BR CA CH CS DE DK ES FI FR GB HU IT JP LI LU NL NO PL RO RU SE US

208) Family number: 56020600 (US2014078857A)

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Title: APPARATUS FOR MIXING MEASURED AMOUNTS OF CONCENTRATE WITH A DILUTANT AND METHOD OF USING SAME

Abstract: A vertical mixing chamber with a forwardly projecting dock having a receiver in its top wall for receiving the spout of a pre-pressurized cartridge mounted from the container by a holder providing for reciprocation to engage a spout with the receiver and open a valve in the cartridge.

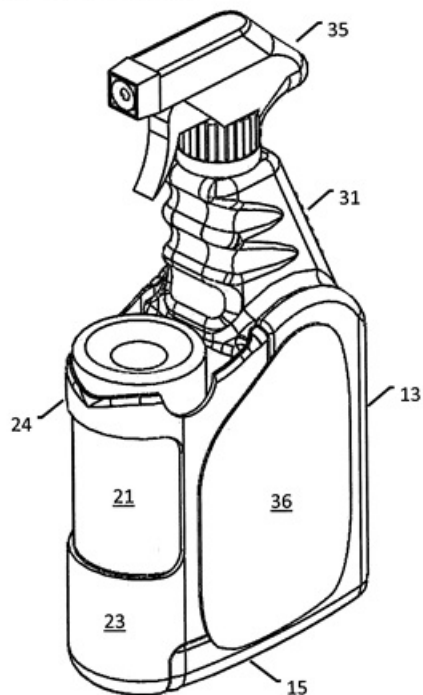
Classifications:

International (IPC 8-9): B01F15/02 B65D83/14 (Advanced/Invention)

CPC: B05B11/0056 B65D83/36 B65D83/756 B01F3/0865

B01F13/0027 B01F15/0226 B01F15/0238 B01F2003/0896

US: 222/145.5 222/325 366/182.1

**Family:**

Publication number	Publication date	Application number	Application date
US2014078857 AA	20140320	US20120623737	20120920

Priority:

US20120623737 20120920

Probable Assignee: FIT SYSTEMS LLC**Assignee(s):** (std): FIT SYSTEMS LLC**Inventor(s):** (std): NELSON STEVEN D ; OLSEN CHRISTIAN M**209) Family number: 52731601 (US2014138410A)**

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Title: LIQUID DISPENSING SYSTEM

Abstract: A manually energized dispensing system for dispensing a fluid (8) contained in a non-pressurized container (7). The dispensing system comprises a dispensing head (1) comprising a housing (2), a nozzle through which fluid to be dispensed exits, a pump (4) mounted in the housing, and a pump actuation mechanism (3), the pump comprising a rotor (13) rotatably and axially displaceable with respect to a stator (12). The pump rotor comprises first and second axial extensions (17, 18) of different diameters, mounted in corresponding chambers (15, 16) of the stator, first and second seals (19, 20) mounted in the stator housing and sealingly surrounding the first and second axial rotor extensions, the rotor extensions comprising liquid supply channels (22, 24) that, in conjunction with the sealing rings, operate as valves that open and close communication between an inlet of the pump connected to the inside of the container (7) and the pump chambers, respectively the pump chambers and an outlet of the pump connected to the dispensing head nozzle, as a function of the angular displacement of the pump rotor. The rotor is coupled mechanically to the actuation mechanism (3) and the actuation mechanism is configured to be manually operated to release or to drive the pump rotor to dispense fluid, respectively to block the pump rotor to stop dispensing fluid.

Classifications:

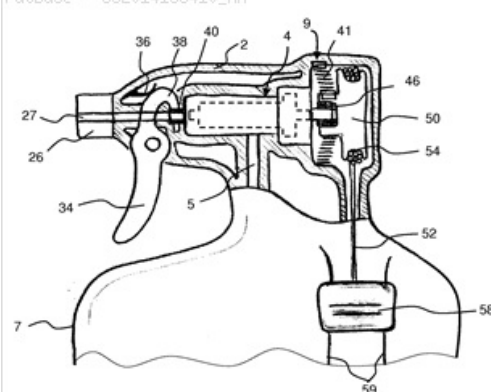
International (IPC 8-9): B05B B05B11/00 B67D7/66 F04B F04B19/00 F04B7/06 F04B9/14 (Advanced/Invention)

CPC: B05B11/3042 B05B11/0037 B05B11/3001 B05B11/3047 B05B11/3052 B05B11/3091 B05B11/3094 F04B7/06 F04B9/14 F04B19/006 B05B11/3011 B05B11/3015 B05B11/3059

European: B05B11/30C B05B11/30H3 B05B11/30P2 B05B11/30R L05B11/00B5 L05B11/30H1D2

US: 1/1 222/383.2

PatBase - US2014138410_AA

**Family:**

Publication number	Publication date	Application number	Application date
CN103649534 A	20140319	CN201280033494	20120703
CN103649534 B	20160706	CN201280033494	20120703

Title: MECHANICALLY ENERGIZED SUBSTANCE COMMUNICATION COUPLING SYSTEM

Abstract: A substance communication coupling system includes a substance connector component for communication of a substance with another substance connector component. A substance switch is provided for selectively permitting communication of the substance between the substance connector components. The substance switch is activated to transfer a substance from a substance source to a substance consumer in response to a proximity sensor engaging a proximity target.

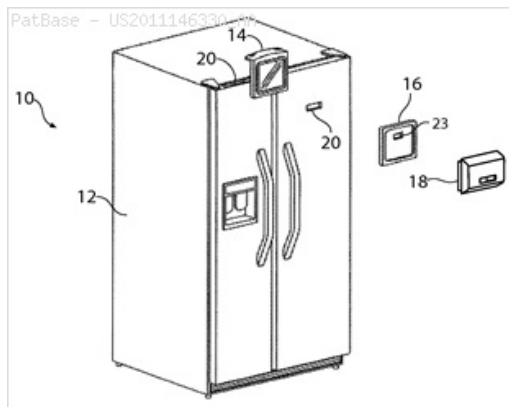
Classifications:

International (IPC 8-9): B65B1/04 B67D7/80 F25D23/00 F25D23/02 F25D23/12 (Advanced/Invention)

CPC: F25D29/00 F25D2400/361 F16L37/26 F25D23/068 F25D23/126

European: F16L37/26

US: 141/349 141/351 141/94 222/146.6 222/146.600S 62/337 62/337S 62/389 62/389P

**Family:**

Publication number	Publication date	Application number	Application date
US2011146330 AA	20110623	US20090643240	20091221
US8528610 BB	20130910	US20090643240	20091221

Priority:

US20090643240 20091221

Probable Assignee: WHIRLPOOL CORP

Assignee(s): (std): KUEHL STEVEN J ; MCCOY RICHARD A ; WHIRLPOOL CO

Assignee(s): WHIRLPOOL CORP

Inventor(s): (std): KUEHL STEVEN J ; MCCOY RICHARD A

Agent(s): MCGARRY BAIR PC; CLIFTON G

Title: FLEXIBLE CONTAINERS WITH BIASED DISPENSING

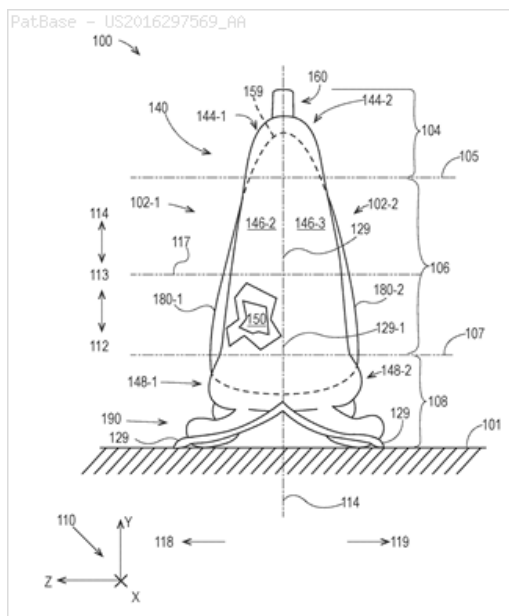
Abstract: Flexible containers having biased dispensing.

Classifications:

International (IPC 8-9): B65D35/00 B65D35/02 B65D35/24 B65D75/00 B65D75/58 (Advanced/Invention)

CPC: B65D35/02 B65D35/24 B65D75/008 B65D75/5811

US: 383/104

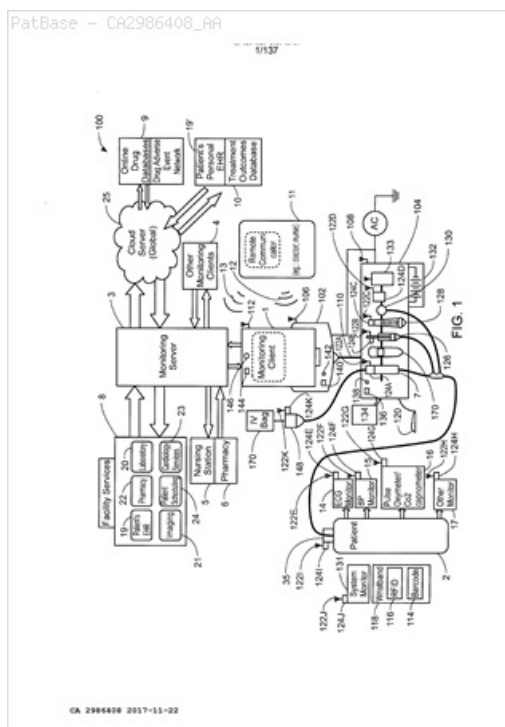
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EP3280658 A1	20180214	EP20160718109	20160408
US2016297569 AA	20161013	US20160094339	20160408
US9988190 BB	20180605	US20160094339	20160408
WO16164692 A1	20161013	WO2016US26596	20160408
WO16164692 A9	20170526	WO2016US26596	20160408

Priority:

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT UA UB US UZ VC VN ZA ZM ZW

CPC: A61B5/0022 A61B5/11 A61B5/7465 G06F3/0481 H04L45/02
H04L67/12 H04L67/02 G06F19/3418 G16H10/60 G16H40/20
G16H40/40



Publication number	Publication date	Application number	Application date
CA2986408 AA	20131128	CA20132986408	20130523

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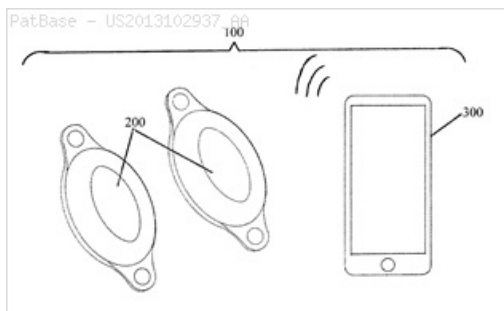
Agent(s): GOWLING WLG CANADA LLP

Classifications:

International (IPC 8-9): A61F A61F7/00 A61H1/00 A61H19/00
A61H23/00 A61H23/02 A61H23/04 A61H37/00 A61H39/06 A61N1/00
A61N1/32 A61N1/36 A61N2/04 (Advanced/Invention);
A61H9/00 (Advanced/Non-invention);
A61F (Subclass/Invention)

CPC: A61H2023/002 A61H23/0263 A61H2201/1623 A61H2201/164
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A61H2230/045 A61H2230/065 A61H2230/208 A61H2230/305
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B33Y80/00 A61H23/02

US: 381/151 601/46 601/47 601/48



Family:

Publication number	Publication date	Application number	Application date
AU2012325893 AA	20130425	AU20120325893	20121019
AU2012325893 BB	20150416	AU20120325893	20121019
AU2013262667 AA	20131121	AU20130262667	20130516
CA2852707 AA	20140416	CA20122852707	20121019
CA2874223 AA	20141113	CA20132874223	20130516
CN103997994 A	20140820	CN201280056989	20121019
CN104379109 A	20150225	CN201380031851	20130516
EP2768443 A1	20140827	EP20120842437	20121019
EP2768443 A4	20150603	EP20120842437	20121019
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EP2849712 A4	20160302	EP20130790502	20130516
HK1201145 A1	20150828	HK20150101827	20150220
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JP2015504321 T2	20150212	JP20140537309T	20121019
JP2015516277 T2	20150611	JP20150512866T	20130516
KR20140092319 A	20140723	KR20147011690	20121019
US2013102937 AA	20130425	US20120656344	20121019
US2013345606 AA	20131226	US20130973834	20130822
US2013345608 AA	20131226	US20130973844	20130822
US2014180181 AA	20140626	US20140192582	20140227
US2014228721 AA	20140814	US20140200919	20140307
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WO13059658 A1	20130425	WO2012US61118	20121019
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WO14149954 A1	20140925	WO2014US21631	20140307

Priority:

US20110549007P 20111019	US20120648060P 20120516	US20120648082P 20120517
US20120648081P 20120517	US20120648083P 20120517	US20120681513P 20120809
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Probable Assignee: SYMPARA MEDICAL INC

Assignee(s): (std): EHRENREICH KEVIN JOE ; MCCRYSTLE KELLY JUSTIN ; OEOPEN RANDOLF VON ; SYMPARA MEDICAL INC ; VON OEOPEN RANDOLF

Assignee(s): SYMPARA MEDICAL INC2800 3RD STREETSAN FRANCISCOCA94107US

Inventor(s): (std): GILMORE GLEN C ; GILMORE III GLEN C ; MCCRYSTLE KELLY JUSTIN ; OEOPEN RANDOLF VON ; PINELLI STEVEN N ; VON OEOPEN RANDOLF ; EHRENREICH KEVIN JOE

Inventor(s): EHRENREICH KEVIN JOEUS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; MERIZZI RAMSBOTTOM; DURAN CORRETTJER SLP; BRANTSANDPATENTS BVBA; ISEKI KATSUMORI; KNOBBE MARTENS OLSON AND BEAR LLP; SUEOKA GREG T ET AL; ZLOGAR THOMAS M ET AL; MILLER KIMBERLY J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

215) Family number: 50621617 (US2013216673A)

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Title: LIQUID MOVEMENT AND CONTROL WITHIN A ROTATABLE CONTAINER FOR FOOD PREPARATION

Abstract: An apparatus and method for controlling the movement of liquids into and out of a container is described. The

cleanable, portable, fully automated apparatus includes a main container for holding the food product, a liquid inlet container having a liquid inlet and inlet valve for controllably providing liquid into the main container and a liquid outlet container receiving liquid drained from the main container. A heater automatically heats the main container and a motor rotates or otherwise moves the main container and a receiving position for receiving fresh liquid from the inlet container to a drainage position for draining waste liquid via gravity from the main container into the outlet container. This rotation/movement of the main container can be used repeatedly to add fresh liquid and remove waste liquid during multiple fully automated cycles (e.g., sprouting, rinsing, soaking, cooking, etc.) that do not require user interaction.

Classifications:

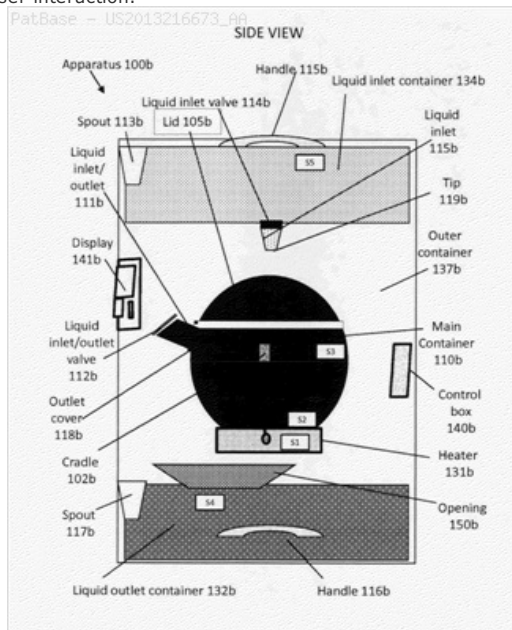
International (IPC 8-9): A23L1/01 A23L5/10 A47J27/00 A47J27/06 A47J27/62 A47J37/12 (Advanced/Invention);

A47J47/01 (Advanced/Non-invention)

CPC: A47J27/002 A23L5/13 A47J27/62 A47J47/01

European: A47J27/62 K47J47/01

US: 426/509 99/331 99/332 99/353 99/403 99/409



Family:

Publication number	Publication date	Application number	Application date
US2013216673 AA	20130822	US20110261583	20110804
US2018008080 AA	20180111	US20170655609	20170720
US9730542 BB	20170815	US20110261583	20110804
US10226145 BB	20190312	US20170655609	20170720
WO12018965 A2	20120209	WO2011US46520	20110804
WO12018965 A3	20120726	WO2011US46520	20110804

Priority:

US20100370466P 20100804 US20110261583 20110804 WO2011US46520 20110804
US20130261583 20130419 US20170655609 20170720

Probable Assignee: LEGUPRO AB

Assignee(s): (std): LEGUPRO ; LEGUPRO AB ; OTILLAR ROBERT ; OTILLAR ROBERT PETER ; STOREK DAVID ; SEQUEIRA ANTONIA ; SEQUEIRA ANTONIA L

Inventor(s): (std): OTILLAR ROBERT PETER ; SEQUEIRA ANTONIA L ; OTILLAR ROBERT P ; SEQUEIRA ANTONIA ; STOREK DAVID ; OTILLAR ROBERT

Agent(s): FENWICK AND WEST LLP; OTILLAR ROBERT

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO OM PE PG PH PL PT QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

216) Family number: 42648623 (US2008305553A)

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Title: KINETIC DETERMINATION OF PERACID AND/OR PEROXIDE CONCENTRATIONS

Abstract: A use composition monitor determines the concentration of peracid and/or peroxide in a use composition using a kinetic assay procedure. A sample mixture containing a sample of the use composition, a diluent and at least one reagent is prepared and analyzed using, for example, an optical detector. Response data obtained by the detector is indicative of the optical absorbance of the sample mixture as a function of time. A processor analyzes the response data to determine a corresponding best fit linear relationship. The initial absorbance of the sample mixture is indicative of the concentration of peracid in the use composition, while the slope of the best fit equation is indicative of the concentration of peroxide in the use composition.

Classifications:

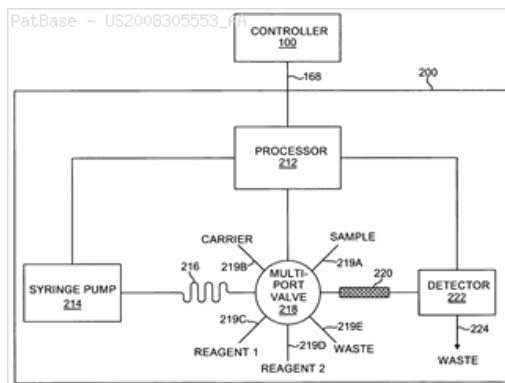
International (IPC 8-9): A61L2/18 A61L2/24 A61L2/28 B01J19/00 C02F1/50 C07C407/00 C07C409/26 C12Q1/00 C12Q1/22 G01K13/00 G01N1/10 G01N21/00 G01N21/01 G01N21/03 G01N21/05 G01N21/27 G01N21/31 G01N21/59 G01N21/75 G01N21/78 G01N21/79 G01N31/00 G01N31/22 G01N33/00 G01N33/48 G01N35/00 G01N35/08 G01N35/10 G06F17/00

G06F19/00 (Advanced/Invention); B01L3/00 C11D7/38 C12Q1/22 G01N21/03 G01N21/27 G01N33/52 G01N35/00 G01N35/10 (Advanced/Non-invention); B01J19/00 C12Q1/00 C12Q1/22 G01K13/00 G01N1/10 G01N21/00 G01N21/01 G01N21/77 G01N31/00 G01N33/00 G01N33/48 G01N35/00 G06F17/00 G06F19/00 (Core/Invention)

International (IPC 1-7): C12Q1/00 G01N35/00

CPC: G01N2021/0346 G01N21/0332 G01N21/274 G01N21/8507 G01N33/52 G01N33/84 G01N31/228 G01N21/79 Y10T436/21 B01L3/502 C12Q1/22 G01N35/1095 G01N2035/00465 G01N21/05 G01N35/085 G01N35/1097 G01N2035/0097 B01L3/502738

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G01N35/08F S01N35/00G9 S01N35/10V1
US: 1/1 356/246 356/246S 374/142 374/142P 374/36 374/E13.001
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422/82 422/82.05 422/82.050S 422/82.09 422/82.090S 422/82.11
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Family:

Publication number	Publication date	Application number	Application date
AU2008259432 AA	20081211	AU20080259432	20080307
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Priority:

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Probable Assignee: ECOLAB USA INC

Assignee(s): (std): CHRISTENSEN WILLIAM ; ECOLAB INC ; ECOLAB USA INC ; KRAUS PAUL R ; PILIPCHENKO ANNA ; SCHILLING PAUL ; TOKHTUEV EUGENE ; KAMBEN DANIEL ; OWEN CHRISTOPHER ; SLOBODYAN VIKTOR ; SKIRDA ANATOLY ; ERICKSON JOSEPH

Inventor(s): (std): CHRISTENSEN WILLIAM ; ERICKSON JOSEPH ; KAMBEN DANIEL ; KRAUS PAUL ; KRAUS PAUL R ; KRAUS PAUL ROBERT ; OWEN CHRISTOPHER ; PILIPCHENKO ANNA ; SCHILLING PAUL ; SKIRDA ANATOLY ; SLOBODYAN VIKTOR ; TOKHTUEV EUGENE ; PAUL R KRAUS

Agent(s): SPRUSON AND FERGUSON ; CASSAN MACLEAN IP AGENCY INC ; POLYPATENT ; GODEMEYER BLUM LENZE PATENTANWALTE PARTNERSCHAFT MBB WERKPATENT ; AOKI ATSUSHI ; KOGA TETSUJI ; ISHIDA TAKASHI ; SHUMAKER AND SIEFFERT P A ; INTELLECTUAL PROPERTY GROUP FREDRIKSON AND BYRON PA ; FREDRIKSON AND BYRON PA ; SORENSEN ANDREW D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

217) Family number: 29750624 (US2002110625A)

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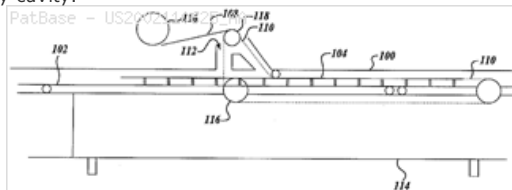
Title: CONTINUOUS PACKAGING IN ENCLOSED CONDUITS

Abstract: The invention relates to a package having a first web defining a cavity and a second web bonded to the first web, wherein the second web includes microperforations at a location that is specific to minimize the escape of liquids from the cavity to the exterior of the package. In one particular embodiment, the first web defines a four sided cavity with walls and corresponding flaps attached to the walls that can be folded and bonded to the cavity walls. The second web is an overwrapping lidding web, wherein microperforations are provided on the web material so that the microperforations are aligned with a flap recess, which in turn is in communication with the interior of the tray cavity. In this manner, suitable gas

exchange can occur with minimal to no escape of liquids from the tray cavity.

Classifications:

International (IPC 8-9): A22C17/00 A22C17/08 A22C17/10
A22C18/00 A23B4/00 A23B4/12 A23B4/16 A23B4/18 A23B4/20
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A23L1/312 A23L1/313 A23L1/317 A23L1/48 A23L13/00 A23L13/20
A23L13/30 A23L13/60 A23L3/015 A23L3/34 A23L3/3418 A23L3/3445
A23L35/00 A23L5/20 A23L5/40 A23P1/00 A23P1/02 A23P1/10
A61L2/16 B01D21/02 B01D21/26 B04B3/04 B32B37/00 B60K6/12
B61J1/08 B65B25/06 B65B31/00 B65B31/02 B65B47/02 B65B55/00
B65B55/12 B65B7/16 B65D21/00 B65D21/06 B65D5/42 B65D6/10 B65D77/20 B65D81/00 B65D81/20 B65D81/26
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G06Q30/00 (Advanced/Invention);
B04B1/20 (Advanced/Non-invention);
A23B4/00 A23B4/12 A23B4/14 A23B4/26 A23L1/015 A23L1/27 A23L1/31 A23L1/317 A23L3/015 A23L3/34 A23P1/02
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B65D81/28 C12C3/00 G01N33/02 (Core/Invention)
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B65D81/20 B65D85/00 B65G47/61 C12C3/04 G01N21/00 G01N33/02
CP: A61L2/20 A61L2/22 B29C66/53461 B29C66/344 B29C2795/002 B29K2027/06 B29L2031/712 B01D21/262 B04B1/20
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US: 1/1 123/44.00RS 123/44R 156/164 156/292 156/292S 156/494 156/494S 180/165 220/675 422/255S 422/261
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426/321P 426/326 426/326P 426/332 426/335 426/335S 426/35 426/35P 426/383 426/383P 426/392 426/392P 426/392S
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426/442 426/442P 426/478 426/478P 426/480 426/480P 426/480S 426/495 426/506 426/518 426/518S 426/519 426/524
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Family:

Publication number	Publication date	Application number	Application date
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EP1347917 A1	20031001	EP20010998482	20011128
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US2002110625 AA	20020815	US20020037440	20020102
US2002122856 AA	20020905	US20010027929	20011220
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Probable Assignee: SAFEFRESH TECHNOLOGIES LLC

Assignee(s): (std): ATKINSON KEVAN J ; CASE READY SOLUTIONS LLC ; GARWOOD ANTHONY J ; GARWOOD ANTHONY J M ; STEPHENS ROBERT M ; SAFEFRESH TECHNOLOGIES LLC ; AGB LLC ; GARWOOD NICHOLAS J

Assignee(s): STONE MICHAEL ; TIMMERMAN SF LLC ; MILLER ANDREW W ; AMERICAN BEEF PROCESSING LLC ; ANTHONY J GARWOOD ; GARWOOD ANTHONY JM ; FEFRESH TECHNOLOGIES LLC SA

Inventor(s): (std): ANTHONY J ; ANTHONY J GARWOOD ; ANTHONY J M GARWOOD ; ANTHONY JM GARWOOD ; ATKINSON KEVAN J ; GARWOOD ANTHONY J ; GARWOOD ANTHONY J M ; STEPHENS ROBERT M ; GARWOOD NICHOLAS J

Inventor(s): GARWOOD ANTHONY JM ; KEVAN J ATKINSON ; ROBERT M STEPHENS ; GARWOOD ANTHONY

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; HERBERT SMITH FREEHILLS; SMART AND BIGGAR; CHRISTENSEN OCONNOR JOHNSON KINDNESS PLLC; FOLEY AND LARDNER; CHRISTENSEN O'CONNOR JOHNSON KINDNESS PLLC; FOLEY AND LARDNER LLP; CHRISTENSEN; JOHNSON KINDNESS PLLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: FLEXIBLE CONTAINERS WITH PUCKERED CORNERS

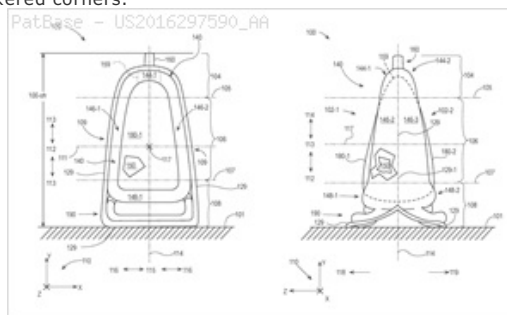
Abstract: Flexible containers having with inflated elements with pucker corners.

Classifications:

International (IPC 8-9): B65D75/00 B65D75/52
B65D75/58 (Advanced/Invention)

CPC: B65D75/52 B65D75/008 B65D75/525 B65D75/5872
B05B11/00412

US: 383/104



Family:

Publication number	Publication date	Application number	Application date
CN107848684 A	20180327	CN201680021202	20160408
EP3280657 A1	20180214	EP20160719990	20160408
US2016297590 AA	20161013	US20160094319	20160408
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Priority:

US20150145684P 20150410 US20160094319 20160408 WO2016US26594 20160408

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): MCGUIRE KENNETH STEPHEN ; STANLEY SCOTT KENDYL ; YOU JUN

Agent(s): HOYNG ROKH MONEGIER LLP; JEFFREY V; CHARLES R; KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

219) Family number: 63732631 (US2016297589A)

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Title: FLEXIBLE CONTAINERS WITH REINFORCING SEALS

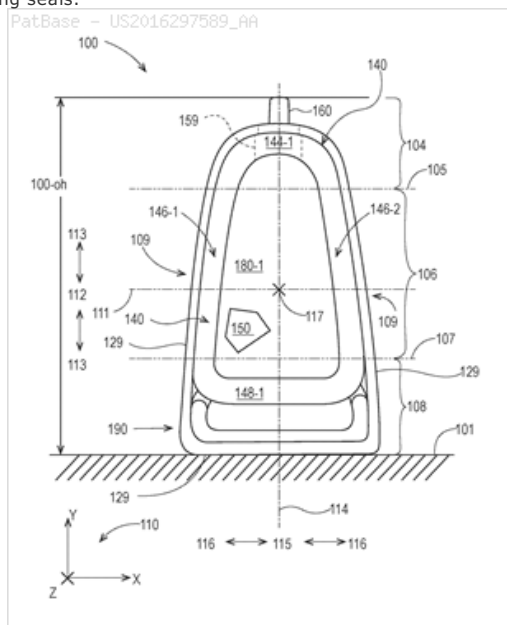
Abstract: Flexible containers having inflated structures and reinforcing seals.

Classifications:

International (IPC 8-9): B65D30/16 B65D33/02 B65D37/00
B65D75/00 B65D75/52 B65D75/58 (Advanced/Invention)

CPC: B65D75/52 B65D75/008 B65D75/525 B65D75/5872
B05B11/00412

US: 383/104



Family:

Publication number	Publication date	Application number	Application date
BR112017021707 A2	20180710	BR20171121707	20160408
CA2981847 AA	20171004	CA20162981847	20160408
CA2981847 C	20190312	CA20162981847	20160408
CN107635883 A	20180126	CN201680021203	20160408
EP3280655 A1	20180214	EP20160719988	20160408
JP2018510823 T2	20180419	JP20170553160T	20160408
KR20170135926 A	20171208	KR20177032298	20160408
MX2017012987 A1	20180130	MX20170012987	20160408
US2016297589 AA	20161013	US20160094262	20160408

US9896253 BB	20180220	US20160094262	20160408
WO16164684 A1	20161013	WO2016US26586	20160408

Priority:

US20150145676P 20150410 US20160094262 20160408 WO2016US26586 20160408

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; YOU JUN ; STANLEY SCOTT KENDYL ; LESTER JOSEPH CRAIG ; MCGUIRE KENNETH STEPHEN

Inventor(s): (std): YOU JUN ; STANLEY SCOTT KENDYL ; MCGUIRE KENNETH STEPHEN ; LESTER JOSEPH CRAIG ; SCOTT KENDYL STANLEY ; KENNETH STEPHEN MCGUIRE ; JUN YOU ; JOSEPH CRAIG LESTER

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; TANI AND ABE PC; JEFFREY V; CHARLES R; KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

220) Family number: 63732632 (US2016297591A)

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Title: FLEXIBLE CONTAINERS WITH INTERMEDIATE BOTTOM MEMBERS

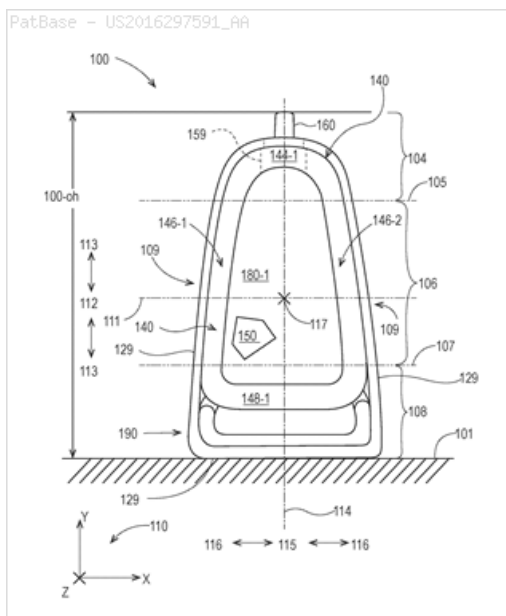
Abstract: Flexible containers having with structural support frames having particular base constructions with intermediate bottom members.

Classifications:

International (IPC 8-9): B65D75/00 B65D75/52 (Advanced/Invention)

CPC: B65D75/525 B65D75/008 B65D75/5872 B05B11/00412

US: 383/104



Family:

Publication number	Publication date	Application number	Application date
US2016297591 AA	20161013	US20160094243	20160408
WO16164681 A1	20161013	WO2016US26583	20160408

Priority:

US20150145670P 20150410 US20160094243 20160408

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): MCGUIRE KENNETH STEPHEN ; STANLEY SCOTT KENDYL ; YOU JUN

Agent(s): KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

221) Family number: 48434632 (US2013171023A)

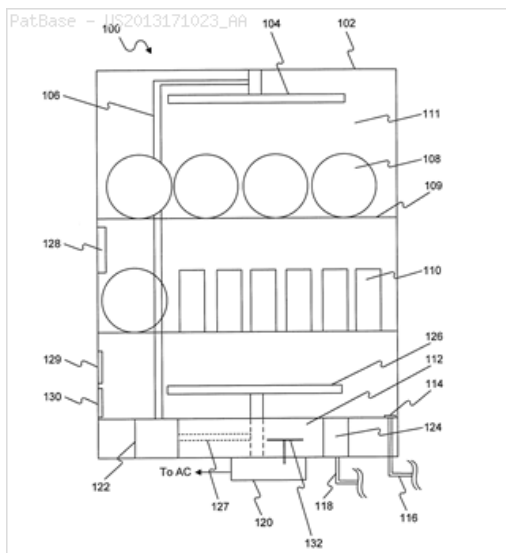
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Title: DEVICE AND METHOD OF SANITATION AND/OR STERILIZATION

Abstract: A device for washing, sanitizing, and/or sterilizing an item is disclosed. The device may comprise a solution applicator for coating a surface of said item with a washing, sanitizing and/or sterilizing solution. The device may also comprise a heating unit for heating the solution coated on the surface of said item to a working temperature. The device may further comprise a control unit for keeping the temperature of the treating substance at the working temperature for a predetermined amount of time.

Classifications:

International (IPC 8-9): A47L15/42 A61L2/04 B08B3/00 C01D17/00 C11D11/00 C11D17/00 C11D3/04 C11D3/08 C11D3/10 C11D3/12 C11D3/20 C11D3/37 C11D3/43 F21V9/00 H01B1/00 (Advanced/Invention); A61L2/06 (Advanced/Non-invention)
CPC: A47L15/42 A61L2/04 C01D17/00 A47L15/4236 A61L2/06 C11D3/046 C11D3/08 C11D3/10 C11D3/12 C11D3/1213 C11D3/1253 C11D3/2093 C11D3/3707 C11D3/43 C11D11/007 C11D17/00
European: K61L2/06
US: 134/115R 252/500 252/582 422/22 510/220 510/228



Family:

Publication number	Publication date	Application number	Application date
US2013171023 AA	20130704	US20100394531	20100907
US8945428 BB	20150203	US20100394531	20100907
WO11029089 A1	20110310	WO2010US47968	20100907

Priority:

US20090240267P 20090907 US20100315040P 20100318 WO2010US47968 20100907
US20100394531 20100907

Probable Assignee: GOJI LTD

Assignee(s): (std): ATZMONY DANIELLA ; BEN SHMUEL ERAN ; BILCHINSKY ALEXANDER ; GOJI LTD ; ROGERS STEVEN R ; SILCOFF ELLIAD

Inventor(s): (std): BEN SHMUEL ERAN ; ATZMONY DANIELLA ; ROGERS STEVEN R ; SILCOFF ELLIAD ; BILCHINSKY ALEXANDER

Agent(s): SMITH RISLEY TEMPEL SANTOS LLC; PATRICK D; GREGORY SCOTT; JIRON DARREN M ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LR LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

222) Family number: 40797636 (US2007203727A)

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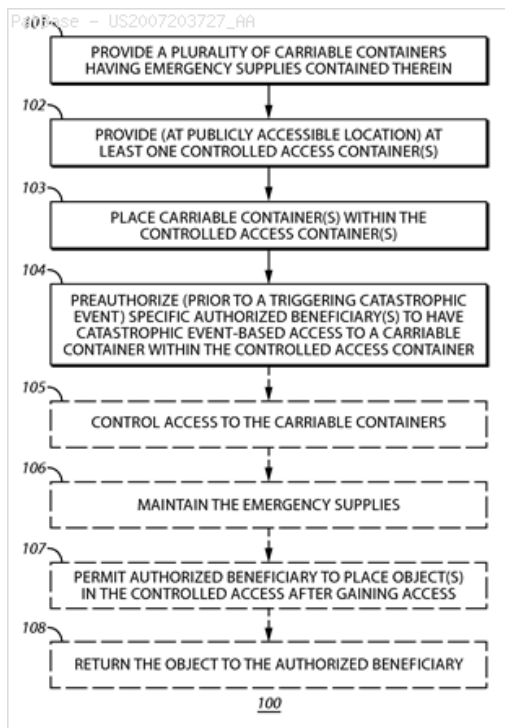
Title: EMERGENCY SUPPLIES PRE-POSITIONING AND ACCESS CONTROL METHOD

Abstract: One provides (101) a plurality of carriable containers having emergency supplies contained therein wherein each of these carriable containers is readily carriable by an average adult human. These carriable containers are then placed (103) within one or more corresponding controlled access containers as are provided at one or more publicly accessible locations (102). Prior to a triggering catastrophic event, one or more specific authorized beneficiaries are then preauthorized (104) to have catastrophic event-based access to one or more of these carriable containers. So configured, the authorized beneficiary(s) will in turn have access to the corresponding emergency supplies that are contained within the carriable container when a triggering catastrophic event occurs.

Classifications:

International (IPC 8-9): A01B71/06 A45F5/00 A47F1/04 A61B17/3213 A61B5/00 B01D46/00 B42D1/00 B60J1/00 B62D53/00 B62D59/04 B63B35/44 B65B3/04 B65G15/00 D02G3/00 E02D29/00 E04B1/00 E04B1/34 E04H1/00 E04H14/00 E04H9/00 F02M37/04 G01C21/20 G01T1/02 G05B19/418 G05B21/00 G05D1/02 G06F15/173 G06F17/30 G06F21/00 G06F9/44 G06F9/46 G06K7/01 G06Q10/00 G06Q30/00 G06Q30/06 G06Q40/00 G06Q50/00 G06Q50/26 G06Q90/00 G06Q99/00 G09B19/00 G21F3/00 H04H1/00 H04H20/59 H04L9/00 H04M11/04 (Advanced/Invention); G06Q90/00 (Advanced/Non-invention); A01B71/00 A45F5/00 A47F1/00 A61B17/32 A61B5/00 B01D46/00 B42D1/00 B60J1/00 B62D53/00 B62D59/00 B63B35/44 B65B3/04 B65G15/00 D02G3/00 E02D29/00 E04B1/00 E04B1/34 E04H1/00 F02M37/04 G01C21/20 G01T1/02 G05B19/418 G05B21/00 G05D1/02 G06F15/16 G06F17/30 G06F21/00 G06F9/44 G06F9/46 G06Q10/00 G06Q30/00 G06Q40/00 G06Q50/00 G06Q99/00 G09B19/00 G21F3/00 H04H1/00 H04L9/00 H04M11/04 (Core/Invention)
CPC: G06Q30/0283 G08B27/008 H04H20/59 H04H60/23 G06Q30/02 G06Q50/00 G06Q30/04 G06Q30/0214 G06Q30/0217 G06Q30/0226 G06Q30/0227 G06Q30/0231 G06Q30/0233 G07F17/0042 E04H9/08 E04H9/12 F41H5/24 A62B31/00 B63C9/02 A62B99/00 E04H9/06 H04L63/10 B01D46/0023 B01D46/0036 B01D2273/30 G21F3/00 G06Q30/06 G06Q30/0633 G06Q10/087 A61B50/10 A61B50/13 A61B50/312 G06Q40/08 A45C15/00 G06Q10/08 G06Q10/02 Y02A50/454 Y02A50/14 G16H40/20 G16H50/80 A47K11/026 G06Q20/401 G06Q50/22 E04H9/14 G06Q10/00 G06Q50/10 G06Q90/00 G06Q50/265 G06Q99/00 G06Q50/163 G06Q50/30 G06Q30/00 A62B1/02 G06Q10/06 G06Q10/10 G06Q50/26 G07C9/00087
European: A45C15/00 A47K11/02C A61B19/02F A61B19/02P4D A62B1/02 A62B31/00 A62B99/00 B01D46/00D4 B01D46/00F60

B63C9/02 E04H9/06 E04H9/08 E04H9/12 E04H9/14 F41H5/24
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G06Q40/08 G06Q50/00 G06Q50/10 G06Q50/163 G06Q50/22
G06Q50/26 G06Q50/265 G06Q50/30 G06Q90/00 G06Q99/00
G07C9/00B6D4 G07F17/00D G07F7/00D G08B27/00T G21F3/00
H04H20/59 K61B19/02F2 K62B99/00 L01D273/30 S06F19/34S
T04H60/23 T04L29/06S10 T04L63/10 Y04S50/12
US: 141/10 180/14.1 180/14.100P 198/321 224/101 235/382.5
235/382.500S 250/472.1 250/519.1 345/85P 379/37 379/37P
434/236 434/236S 455/3.01 455/3.010 52/169.6 52/3 52/741.1
52/741.100S 52/745.05 52/745.050P 52/79.1 52/79.100S 600/300
600/300P 701/23 705/1 705/1.1 705/1.100P 705/14.16 705/14.160P
705/14.19 705/14.190S 705/14.27 705/14.270S 705/14.28
705/14.280S 705/14.31 705/14.310S 705/14.33 705/14.330S 705/2
705/26.8 705/2P 705/314 705/314P 705/325 705/325S 705/400
705/400P 705/5 705/500 705/500P 705/52 705/52P 705/5P 705/75
705/75S 707/802 707/802S 707/E17.005 707/E17.005S 726/2
726/2S 96/222 96/222P



Family:

Publication number	Publication date	Application number	Application date
US2007203727 AA	20070830	US20060456472	20060710
US2007214729 AA	20070920	US20060535282	20060926
US2007215434 AA	20070920	US20060555896	20061102
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US2007228090 AA	20071004	US20060559278	20061113
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US2007233506 AA	20071004	US20060548191	20061010
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Priority:

US20060361247	20060224	US20060384037	20060317	US20060394350	20060330
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Probable Assignee: SOVEREIGN DEED LLC

Assignee(s): (std): BOTOS MATTHEW J ; MOORE BARRETT H ; SEIDEL GREGORY E ; SOVEREIGN DEED LLC

Inventor(s): (std): BOTOS MATTHEW J ; MOORE BARRETT H ; SEIDEL GREGORY E

Inventor(s): MOORE BARRETT

Agent(s): FITCH EVEN TABIN AND FLANNERY; KRATZ RUDY; KRATZ RUDY I; KRUEGER JAMES P; KRATZ RUDY I ET AL; SAMPLES KENNETH H ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

223) Family number: 33498637 (WO9739087A1)

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Title: MID-CHAIN BRANCHED PRIMARY ALKYL ALKOXYLATED SULPHATE SURFACTANTS

Abstract: Mid-chain branched primary alkyl alkoxyated sulphate surfactants useful in laundry and cleaning compositions, especially granular and liquid detergent compositions. These surfactant mixtures are also suitable for formulation with other surfactants for the purpose of providing improved surfactant systems, especially for use in detergent compositions which will be used in laundry processes involving low water temperature wash conditions. The present invention also relates to novel mid-chain branched primary alkyl alkoxyated sulphate surfactants suitable for use in the surfactant mixtures.

Classifications:

International (IPC 8-9): B01F17/02 B01F17/18 B01F17/42 C07C303/24 C07C305/04 C07C305/06 C07C305/10 C07C69/88 C11D1/12 C11D1/14 C11D1/29 C11D1/52 C11D1/62 C11D1/65 C11D1/72 C11D17/00 C11D3/08 C11D3/12 C11D3/18 (Advanced/Invention);

B01F17/02 B01F17/18 B01F17/42 C11D1/62 C11D17/00 (Advanced/Non-invention)

International (IPC 1-7): B01F17/02 B01F17/18 B01F17/42 C07C305/04 C07C305/06 C07C305/10 C11D1/14 C11D1/29

CPC: A61K8/463 A61Q5/02 A61Q11/00 A61Q19/10 C07C303/24 C07C305/06 C07C305/10 C11D1/123 C11D1/126

C11D1/146 C11D1/29 C11D1/521 C11D1/62 C11D1/65 C11D1/72 C11D3/08 C11D3/128 C11D3/18

European: A61K8/46C C07C303/24 C07C305/06 C07C305/10 C11D1/12B C11D1/12D C11D1/14D C11D1/29 C11D1/52B C11D1/65 C11D1/72 C11D3/08 C11D3/12G2F C11D3/18 K61Q11/00 K61Q19/10 K61Q5/02 M11D1/14D M11D1/62

Family:

Publication number	Publication date	Application number	Application date
AR006682 AA	19990908	AR1997P101545	19970417
AT210716 E	20011215	AT19970918719T	19970416
AU199726754 A1	19971107	AU19970026754	19970416
BRPI9710655 A	19990817	BR1997PI10655	19970416
CA2252363 AA	19981015	CA19972252363	19970416
CA2252363 C	20070130	CA19972252363	19970416
CN1097089 C	20021225	CN19971095568	19970416
CN1177917 C	20041201	CN20011041132	19970416
CN1222186 A	19990707	CN19971095568	19970416
CN1361237 A	20020731	CN20011041132	19970416
CZ297202 B6	20060913	CZ19980003343	19970416
CZ9803343 A3	19990317	CZ19980003343	19970416
DE69709090 D1	20020124	DE19976009090	19970416
DE69709090 T2	20020822	DE19976009090T	19970416
DE69709090 T3	20110505	DE19976009090T	19970416
DK0898606 T3	20020402	DK19970918719T	19970416
EG22088 A	20020731	EG19970000199	19970311
EP0898606 A1	19990303	EP19970918719	19970416
EP0898606 B1	20011212	EP19970918719	19970416
EP0898606 B2	20101006	EP19970918719	19970416
ES2165045 T3	20020301	ES19970918719T	19970416
JP11507955 T2	19990713	JP19970537380T	19970416
JP3833264 B2	20061011	JP19970537380T	19970416
MA24138 A1	19971231	MA19970024551	19970414
MX217017 B	20031020	MX19980008559	19981015
MX9808559 A1	19990401	MX19980008559	19981015
MX9808559 A1	19990430	MX19980008559	19981015
NO984791 A	19981215	NO19980004791	19981014
NO984791 A0	19981014	NO19980004791	19981014
PT898606 T	20020531	PT19970918719T	19970416
TR9802085 T2	19990118	TR19980002085T	19970416
WO9739087 A1	19971023	WO1997US06471	19970416

Priority:

US19960015521P	19960416	US19960015523P	19960416	US19960032035P	19961126
US19960032035P	19961126	WO1997US06471	19970416	WO1997US06471	19970416

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BURCKETT ST LAURENT JAMES CHAR ; CONNOR DANIEL STEDMAN ; CRIPE THOMAS ANTHONY ; PROCTER AND GAMBLE ; THE PROCTER AND GAMBLE COMPANY ; VINSON PHILLIP KYLE ; WILLMAN KENNETH WILLIAM ; THE PROCTER AND GAMBLE CO

Assignee(s): THE PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO ; BURCKETT ST LAURENT JAMES CHARLES T ; BURCKETT ST LAURENT JAMES CHARLES T R ; BURCKETT ST LAURENT JAMES CHARLES TR

Inventor(s): (std): BURCKETT ST LAURENT J C T ; BURCKETT ST LAURENT JAMES CHAR ; CONNOR DANIEL STEDMAN ;

CRIFE THOMAS ANTHONY ; DANIEL STEDMAN CONNOR ; THOMAS ANTHONY CRIFE ; VINSON PHILIP KYLE ; VINSON PHILLIP KYLE ; WILLMAN KENNETH WILLIAM ; WINSON P K ; WILLMAN WILLIAM ; VINSON P K ; VINSON KYLE ; TA CRIFE ; TA CREEPEI ; T A CRIFE ; ROGER BURCKETT ST LAURENT JAME ; PK WINSON ; PK VINSON ; PHILIP KYLE VINSON ; P K VINSON ; KONNER D S ; KENNETH WILLIAM WILLMANN ; JAMES CHARLES THEOPHILE ROGER BURCKETT STLAURENT ; D S CONNOR ; CRIFE THOMAS A ; CRIFE T A ; CRIFE ANTHONY ; CREEPEI T A ; CONNOR STEDMAN ; CONNOR D S ; BURCKETT ST LAURENT JAMES CHARLES T R ; BURCKETT ST LAURENT CHARLES ; JAMES CHARLES THEOPHILE ROGER ; DS KONNER ; DS CONNOR ; LAURENT JAMES CHARLES T R BURC

Inventor(s): LAURENT JAMES CHARLES T R BURCKETT ST ; PHILLIP KYLE VINSON ; D S KONNER ; JAMES CHARLES TRBURCKETT STLAURENT ; BURCKETT ST LAURENT JAMES CHARLES THEOPHILE ROGER ; BURCKETT ST LAURENT JAMES CHARLES ; JAMES CHARLES THEOPHILE ROGER BURCKETT ST LAURENT ; P K WINSON ; T A CREEPEI ; JAMES CHARLES T R BURCKETT ST LAURENT ; KENNETH WILLIAM WILLMAN ; BURCKETT ST LAURENT JAMES CHARLES T ; BURCKETT ST LAURENT JAMES CHARLES TR

Agent(s): KIRBY EADES GALE BAKER; HOWARD PHILLIP JAN

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN YU

224) Family number: 29734640 (US2002050073A)

© PatBase

Title: Device

Abstract: The invention provides a device for freshening fabrics in a tumble dryer during multiple tumble drying cycles. The device comprises: a reservoir for storing a fabric freshening composition, means to expose fabric freshening composition from the reservoir to airflow generated inside the tumble drier thereby transferring a portion of the fabric freshening component into contact the fabric freshening composition and transfer a portion thereof into contact with fabrics in the tumble dryer during a tumble drying cycle; means for attaching the device to the inside of the tumble dryer door; and optionally means for indicating to a user when the fabric freshening composition is used up.

Classifications:

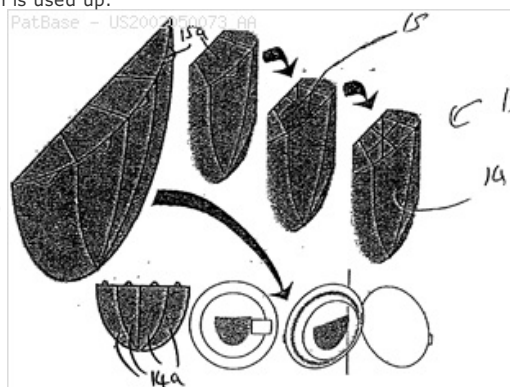
International (IPC 8-9): D06F58/20 F26B11/02 F26B19/00 F26B21/14 (Advanced/Invention)

International (IPC 1-7): D06F58/00 D06F58/20 F26B11/02 F26B19/00 F26B7/00

CPC: D06F58/203

European: D06F58/20B

US: 222/325 222/485 34/132 34/132S 34/329 34/329S 34/331 34/380 34/499 34/499S 34/595 34/595P 34/595S 34/597 34/597P 34/597S 34/60 34/60S 34/72 34/72S 34/90 34/90S 343/800 345/970



Family:

Publication number	Publication date	Application number	Application date
AR034169 AA	20040204	AR2001P104859	20011017
AT325214 E	20060615	AT20010976303T	20011011
AU2001295615 AA	20020429	AU20010295615	20011011
AU2001295615 BB	20060427	AU20010295615	20011011
AU2001295615 BH	20060817	AU20010295615	20011011
AU200195615 A1	20020429	AU20010095615	20011011
AU200195615 A5	20020429	AU20010095615D	20011011
AU200216959 A1	20020429	AU20020016959	20011011
AU200216959 A5	20020429	AU20020016959	20011011
AU2002216959 AA	20020429	AU20020216959	20011011
BRPI0114694 A	20031014	BR2001PI14694	20011011
CA2425748 AA	20030414	CA20012425748	20011011
CA2425755 AA	20030414	CA20012425755	20011011
CL2001002424 A1	20030204	CL20010002424	20011009
CL2001002425 A1	20030204	CL20010002425	20011009
CN1481459 A	20040310	CN20018020732	20011011
CZ20031091 A3	20040414	CZ20030001091	20011011
DE60119356 D1	20060608	DE20016019356	20011011
DE60119356 D1	20060608	DE20016019356T	20011011
DE60119356 T2	20060928	DE20016019356T	20011011
EP1327019 A1	20030716	EP20010976303	20011011
EP1327019 B1	20060503	EP20010976303	20011011
EP1354092 A1	20031022	EP20010987825	20011011
EP1489220 A1	20041222	EP20040021526	20011011
ES2263664 T3	20061216	ES20010976303T	20011011
GB200025555 A0	20001206	GB20000025555	20001018
GB200122595 A0	20011107	GB20010022595	20010919
HU0302106 AB	20030929	HU20030002106	20011011
TH67338 A	20050215	TH20011004243	20011017
TW517126 B	20030111	TW20010124850	20011008
TW517127 B	20030111	TW20010124858	20011008
US2002050073 AA	20020502	US20010983051	20011017
US2002078589 AA	20020627	US20010982288	20011017
US2003196348 AA	20031023	US20030422300	20030424
US2003213145 AA	20031120	US20030465170	20030619
US6604297 BB	20030812	US20010983051	20011017

US6609311 BB	20030826	US20010982288	20011017
WO0233160 A1	20020425	WO2001EP11784	20011011
WO0233161 A1	20020425	WO2001EP11785	20011011
ZA200302398 A	20040329	ZA20030002398	20011011

Priority:

GB20000025555 20001018 GB20010022595 20010919 EP20010976303 20011011
WO2001EP11784 20011011 WO2001EP11785 20011011 US20010982288 20011017
US20010983051 20011017 US20030422300 20030424 US20030465170 20030619

Probable Assignee: HENKEL IP AND HOLDING GMBH

Assignee(s): (std): UNILEVER HOUSE ; UNILEVER HOME AND PERSONAL CARE ; LEVER HINDUSTAN LTD ; UNILEVER NV ; UNILEVER PLC ; UNILEVER N V

Assignee(s): US BANK NATIONAL ASSOCIATION ; HAGEMANN UWE ; HAYES STEVEN ; HENKEL IP AND HOLDING GMBH ; HINDUSTAN LEVER LIMITED ; HINDUSTAN LEVER LTD ; HONEY RAYMOND ; UNILEVER HOME AND PERSONAL CARE USA DIVISION OF CO ; UNILEVER HOME AND PERSONAL CARE U SA ; SUN PRODUCTS CORP ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; SPOTLESS ACQUISITION CORP ; SPOTLESS HOLDING CORP ; SUN PRODUCTS F K A HUIH DETERGENTS INC CORP ; UNILEVER HOME AND PERSONAL CARE USA DIVISION OF CONOPCO INC ; KERR COLIN WATT

Inventor(s): (std): COLIN WATT KERR ; HAGEMANN U ; HAGEMANN UWE ; HAYES S ; HAYES STEVEN ; HONEY R ; HONEY RAYMOND ; KERR COLIN WATT ; R HONEY ; RAYMOND HONEY ; S HAYES ; STEVEN HAYES ; U HAGEMANN ; UWE HAGEMANN ; KERR WATT

Inventor(s): UWE ; STEVEN ; RAYMOND ; KERR ; HONEY ; HAYES ; HAGEMANN ; COLIN WATT

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; SARGENT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

225) Family number: 33210647 (US2011147416A)

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Title: DISPENSER

Abstract: The invention relates to a dispenser for a substance, comprising a housing (1), a reservoir (2), a metering valve (3), and an actuator (4). In known dispensers, the metering valve (3) is positively coupled to the actuator (4) via coupling means when the metering valve is activated for the first time. The invention is characterized in that the coupling means can be activated by inserting a the reservoir (2) into the housing (1) and by the respective relative movement between the housing (1) and the reservoir (2) in the direction of insertion (E) thereby eliminating an idle movement after the insertion of the reservoir.

Classifications:

International (IPC 8-9): A47K5/12 B05B7/30 B05B9/03 B65D83/00 B67D3/00 B67D5/06 (Advanced/Invention);

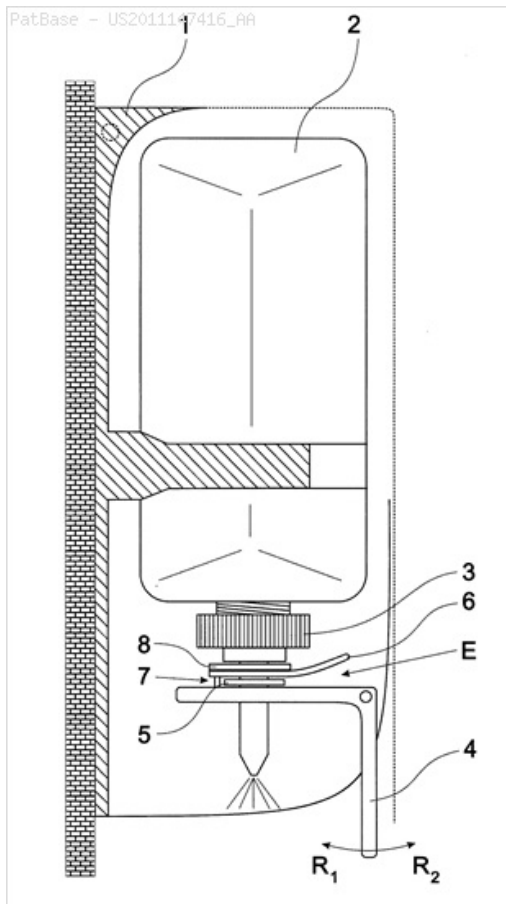
A47K5/00 B05B9/03 B65D83/00 (Core/Invention)

International (IPC 1-7): A47K5/12

CPC: A47K5/1208

European: A47K5/12C2

US: 222/181.3 222/181.300P 239/349



Family:

Publication number	Publication date	Application number	Application date
AT359737 E	20070515	AT20060708270T	20060214
AU2006212195 AA	20060817	AU20060212195	20060214
AU2006212195 BB	20090402	AU20060212195	20060214
BRPI0607177 A2	20090811	BR2006PI07177	20060214

BRPI0607177 B1	20170214	BR2006PI07177	20060214
CA2583395 AA	20070405	CA20062583395	20060214
CA2583395 C	20100713	CA20062583395	20060214
CN100593385 C	20100310	CN200680001139	20060214
CN101052336 A	20071010	CN200680001139	20060214
DE102005006845 A1	20060817	DE200510006845	20050214
DE502006000008 D1	20070531	DE200650000008T	20060214
DK1711094 T3	20070813	DK20060708270T	20060214
EP1711094 A1	20061018	EP20060708270	20060214
EP1711094 B1	20070418	EP20060708270	20060214
ES2286814 T3	20071201	ES20060708270T	20060214
IN03376KN2007 A	20080725	IN2007KN03376	20070911
IN238206 B	20100129	IN2007KN03376	20070911
JP2008529627 T2	20080807	JP20070554582T	20060214
MX2007005927 A1	20070713	MX20070005927	20060214
PT1711094 T	20070725	PT20060708270T	20060214
RU2007134094 A	20090320	RU20070134094	20060214
RU2364309 C2	20090820	RU20070134094	20060214
TW200732242 A	20070901	TW20060105212	20060216
TWI294400 B	20080311	TW20060105212	20060216
US2011147416 AA	20110623	US20060661228	20060214
US7992804 BB	20110809	US20060661228	20060214
WO06084920 A1	20060817	WO2006EP50934	20060214

Priority:

DE200510006845 20050214 WO2006EP50934 20060214 TW20060105212 20060216

Probable Assignee: DEB IP LTD

Assignee(s): (std): DEB IP LTD ; EVONIK DEGUSSA GMBH ; EVONIK STOCKHAUSEN GMBH ; STOCKHAUSEN GMBH ; NAUELS BERND ; STOCKHAUSEN CHEM FAB GMBH ; SHTOKKHAUZEN GMBKH

Assignee(s): EVONIK STOCKHAUSEN GMBHBAKERPFAD 2547805KREFELDDDE ; STOCKHAUSEN GMBHBAKERPFAD 2547805KREFELDDDE ; STOCKHAUSEN GMBH AND CO KG ; EVONIK DEGUSSA GMBHRELLINGHAUSER STRASSE 1-1145128ESSENDE ; DEB IP LTDDENBY HALL WAYDERBYSHIREDE5 8JZDENBYGB

Inventor(s): (std): NAUELS BERND ; NAUELS BERND ; BERND KNOWLES ; NAUEHLS BERND

Inventor(s): NAUELS BERNDDE ; BERND NAUELS ; KNOWLES BERND ; BERND NAUELS

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; ROBIC; HILL AND SCHUMACHER; STETINA BRUNDA GARRED AND BRUCKER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

226) Family number: 30113649 (US2001052353A)

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Title: Cleaning device and mehtod of use

Abstract: A cleaning device for cleaning toilets, bathroom fixtures, and other surfaces. The device encloses a reservoir contained in a hollow handle for storing a cleaning solution, with a cap connected to one end of the handle and a base connected to the other end of the handle. A brush, sponge or other scrubber or cleaning surface is preferably attached to the base. A manually operated flow control mechanism opens a valve which seals at least one exit or dispensing orifice at or near the base of the reservoir, and thereby allows volume of cleaning solution to be dispensed at a reasonably fast, controlled rate of flow. In one embodiment, manually operated vacuum pressure release orifices are located at the opposite end of the reservoir from the exit orifice and are normally closed, but may be opened to minimize or eliminate any vacuum (subatmospheric pressure) in the reservoir, thereby aiding the flow of liquid from the reservoir through the exit orifice.

Classifications:

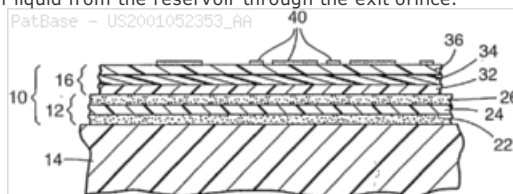
International (ipc 8-9): A46B11/00 A46B11/04 A47G1/17 A47K11/10 B08B7/00 B44C1/10 G09F7/12 (Advanced/Invention); A46B11/00 A47G1/16 A47K11/00 B08B7/00 B44C1/00 G09F7/02 (Core/Invention)

International (ipc 1-7): A46B11/00 B08B7/00 B08B9/04 B32B15/04 B32B31/00 B32B7/12 B44C1/10 C09J1/00

CPC: A46B11/0013 A46B11/0062 A46B11/0079 A46B2200/3033 A46B2200/304 A47K11/10 Y10T428/1486 Y10T428/24851 A47G1/17 Y10T428/28 Y10T428/2848 B44C1/105 G09F7/12

European: A46B11/00C4 A46B11/00C8 A46B11/00E2 A47G1/17 A47K11/10 B44C1/10B G09F7/12 K46B200/30E K46B200/30F

US: 134/22.1 134/22.100S 134/22.18 134/22.180P 134/34 134/34S 134/6 134/6P 134/8 134/8S 156/23 156/230 156/247 156/277 40/594 401/270 401/276 401/278 401/279 401/282 428/201 428/343 428/354 428/42.1 428/542.2



Family:

Publication number	Publication date	Application number	Application date
US2001052353 AA	20011220	US20000745146	20001220
US2003121600 AA	20030703	US20030342548	20030115
US2003127181 AA	20030710	US20020294090	20021114
US2003134138 AA	20030717	US20020294174	20021114
US2004159332 AA	20040819	US20030659613	20030910
US2005211271 AA	20050929	US20050079913	20050314
US6482288 BA	20021119	US20000528256	20000317
US6491781 BA	20021210	US20000528257	20000317
US6531021 BA	20030311	US20000528258	20000317
US6623201 BB	20030923	US20000745146	20001220

Priority:

US19990172260P 19990319 US19990198233P 19990319 US19990198247P 19990319

US19990228799P 19990319	US20000528258 20000317	US20000331369P 20000317
US20000528257 20000317	US20000528256 20000317	US20000231217P 20000908
US20000745146 20001220	US20020294090 20021114	US20020294174 20021114
US20030342548 20030115	US20030659613 20030910	US20050079913 20050314

Probable Assignee: 3M CO

Assignee(s): (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO ; BRUMLIK JOHN F

Assignee(s): BRUMLIK JOHN FRANCOIS ; 3M INNOVATIVE PROPERTIES COMPANY

Inventor(s): (std): BRUMLIK JOHN F ; BRUMLIK JOHN FRANCOIS ; CONGARD PIERRE ; KRECKEL KARL WERNER ; KUESTER WILHELM ; LONCAR JR FRANCIS V ; MUELLER BRUNO ; REGNIER DIANE L ; LONCAR FRANCIS V ; DEYAK FRANK L

Inventor(s): BRUMLIK JOHN

Agent(s): KNOBBE MARTENS OLSON AND BEAR LLP

227) Family number: 57488655 (US2014290705A)

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Title: CONTAINER WASHING SYSTEM

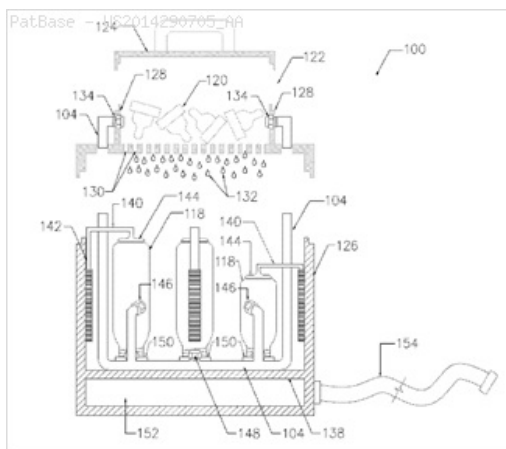
Abstract: A washing system provides multiple layers of jet nozzles strategically oriented in an enclosed system for washing container accessories and containers. A fluid source, such as a sink provides a hot, high pressure fluid. A timer regulates the duration of the washing. At least two accessory nozzles discharge the fluid in a whirlpool form to clean the container accessories. An outer nozzle up to 120 degrees to clean a container outer surface. An inner nozzle extends through a container aperture to clean a container inner surface. The nozzles are configured to orient and position around the container and the container accessory to optimize the washing process in the outer surface, and the often difficult to access inner surface. The container is held in place while being washed through an adjustable upper holder and a threadably engaged lower holder while being washed under heavy pressure.

Classifications:

International (IPC 8-9): B08B9/093 B08B9/34 (Advanced/Invention)

CPC: B08B9/34

US: 134/170 134/99.2



Family:

Publication number	Publication date	Application number	Application date
US2014290705 AA	20141002	US20140242179	20140401

Priority:

US20130807398P 20130402 US20140242179 20140401

Probable Assignee: QUIMPO LESTER ACOSTA

Assignee(s): (std): QUIMPO LESTER ACOSTA

Inventor(s): (std): QUIMPO LESTER ACOSTA

228) Family number: 33812655 (US2006261091A)

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Title: FLUID PRODUCT DISPENSER

Abstract: A dispenser for dispensing a fluid product, includes a reservoir for containing a liquid product, a pump, connected to the reservoir, for dispensing the fluid product, using the liquid product as an input, an actuating organ cooperating with the pump, whereby the pump can be actuated by manually moving the actuating organ, at least part of at least an outer surface of the actuating organ being comprised of plastic material, wherein an anti-pathogenic agent is incorporated within said plastic material. For example, the plastic material has a matrix-like molecular structure and the anti-pathogenic agent is distributed substantially homogeneously throughout this matrix-like structure. In a particular embodiment, the anti-pathogenic agent comprises silver, including salts or complexes thereof. The product present in the reservoir as liquid and dispensed by the pump as fluid may, for example, include soap, shampoo, disinfectant, detergent, moisturizer, hair conditioner, exfoliating scrub, perfume, and mixtures of these products.

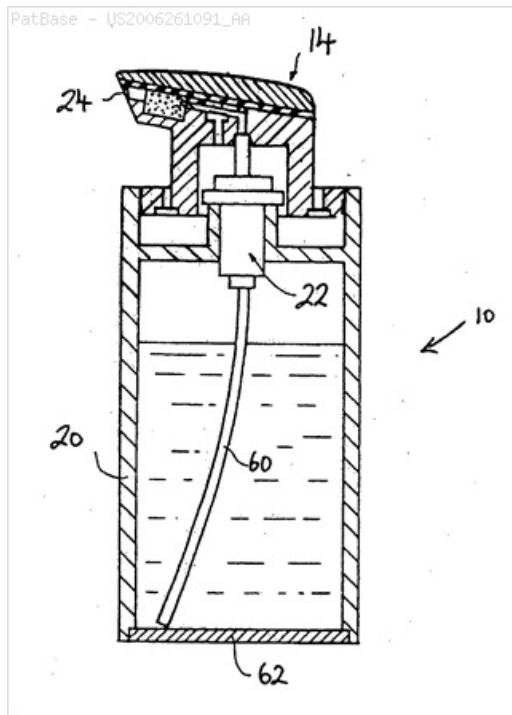
Classifications:

International (IPC 8-9): B67D5/38 B67D7/56 (Advanced/Invention); B67D7/06 (Core/Invention)

CPC: B05B11/0005 B05B11/30

European: B05B11/00B L05B11/30

US: 222/156 222/181.1 222/181.100S 222/181.3 222/181.300S 222/321.7 222/321.700S 222/380 222/380S

**Family:**

Publication number	Publication date	Application number	Application date
US2006261091 AA	20061123	US20060332480	20060117

Priority:

US20050677352P 20050504 US20060332480 20060117

Probable Assignee: BENTFIELD EUROPE BV

Assignee(s): (std): BENTFIELD EUROPE BV

Assignee(s): BENTFIELD EUROPE B V ; BENTFIELD EUROPE BV

Inventor(s): (std): KADIKS FEDOR

Agent(s): PILLSBURY WINTHROP SHAW PITTMAN LLP

229) Family number: 49397657 (US2011319813A)

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Title: INFUSION PUMP APPARATUS, METHOD AND SYSTEM

Abstract: An infusion pump system is disclosed. The infusion pump system includes an infusion pump and a controller device in wireless communication with the infusion pump, wherein the controller including instructions for controlling the infusion pump, wherein the instructions may be synchronized with a secure web portal.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/145 A61J1/20 A61M1/00 A61M1/36 A61M39/24 A61M39/26 A61M5/00 A61M5/14 A61M5/142 A61M5/145 A61M5/168 A61M5/172 A61M5/38 A61M5/44 A61M5/50 B01D19/00 G06F19/00 G16H10/65 G16H40/67 H04B5/00 H04L29/06 H04L9/00 H04L9/08 (Advanced/Invention);

A61M5/14 A61M5/168 A61M5/44 (Advanced/Non-invention)

CPC: A61M5/1723 A61B5/14532 A61B5/742 A61M2005/1726 A61M2205/3553 A61M2230/201 H04B5/0031 H04B5/0037 G06F19/3468 A61B5/0022 A61M2205/8206 A61M2205/8256 A61M2209/086 G06F19/3418 A61M2205/3389 A61M2005/1402 A61M2005/14264 A61M2205/3569 A61M2205/502 A61M2205/505 A61M2205/52 A61M5/445 A61M5/5086 A61M5/385 A61M2205/18 A61M2005/16863 A61M2205/702 A61M5/14244 A61M5/1684 Y02A90/26 A61M5/14248 A61M5/16831 A61M5/16886 A61M5/44 A61M2205/332 A61M2205/3358 A61M2205/3368 A61M2205/3372 A61M2205/3561 A61M2205/3592 A61M2205/3606 A61M2205/364 A61M2205/3653 A61M2205/3673 A61M2205/368 A61M2205/3686 A61M2205/3693 A61M2205/70 A61M2205/7536 A61M2209/045 G16H10/65 G06F19/323 G06F19/00

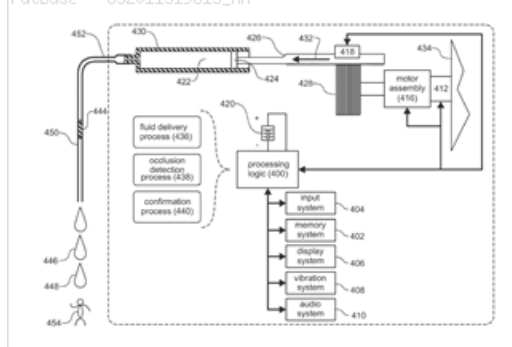
European: A61M5/142P K61M205/33P14 K61M205/33T K61M205/33T2 K61M205/35R2 K61M205/35R3 K61M205/35T2 K61M205/36A K61M205/36F K61M205/36J K61M205/36P K61M205/36R K61M205/36R2 K61M205/36U K61M205/50A K61M205/50A1 K61M205/52 K61M205/70 K61M205/75D K61M209/04F K61M5/142P4 K61M5/14A6 K61M5/168D K61M5/168M K61M5/44

US: 600/365 604/113 604/113P 604/151 604/151S 604/504 604/506 604/66 604/66P

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Publication number	Publication date	Application number	Application date
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Priority:

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JP20180152879	20180815				

Probable Assignee: DEKA PRODUCTS PARTNERSHIP LTD

Assignee(s): (std): DEKA PRODUCTS LP ; GRAY LARRY B ; KAMEN DEAN ; DURAND KEVIN A ; BLUMBERG DAVID JR ; BLUMBERG JR DAVID ; GUAY GERALD M ; KARWIN JOHN M ; LANIER JR GREGORY R ; MANDRO MARC A ; MURPHY COLIN H ; KERWIN JOHN M ; LANIER GREGORY R JR ; PERET BOB D ; RIVINIUS GREGG W ; DEKA PRODUCTS LTD PARTNERSHIP ; LANIAR GREGORY R

Assignee(s): BLUMBERG DAVID ; DEKA PRODUCTS PARTNERSHIP LTD ; DEKA PRODUCTS PARTNERSHIP MANCHESTER LTD ; LANIER GREGORY R ; DEKA PRODUCTS PARTNERSHIP LTD340 COMMERCIAL STREETMANCHESTERNH03101US ; DEKA PRODUCTS LIMITED PARTNERSHIP ; DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s): (std): KERWIN JOHN M ; KAMEN DEAN ; GRAY LARRY B ; MURPHY COLIN H ; LANIER JR GREGORY R ; DURAND KEVIN A ; MANDRO MARC A ; BLUMBERG JR DAVID ; PERET BOB D ; GUAY GERALD M ; LANIAR GREGORY R ; KARWIN JOHN M ; RIVINIUS GREGG W ; LANIER GREGORY R ; LANIER GREGORY R JR ; GREGORY R LANIER JR ; KEVIN A DURAND ; COLIN H MURPHY ; GREGG W RIVINIUS ; GERALD M GUAY ; DAVID BLUMBERG JR ; BOB D PERET ; PERET BOB DAVID ; BLUMBERG DAVID ; BLUMBERG DAVID JR ; MURPHY COLLIN H

Inventor(s): KAMEN DEAN BEDFORD ; MANDRO MARC A BOW ; KERWIN JOHN M MANCHESTER ; GRAY LARRY B MERRIMACK ; LANIER JR GREGORY R MANCHESTER ; MURPHY COLLIN H CAMBRIDGE ; DURAND KEVIN A HARVARD ; LANIER JR ; BLUMBERG DAVID JRUS ; MURPHY COLIN HUS ; KAMEN DEANUS ; GRAY LARRY BUS ; RIVINIUS GREGG WUS ; DURAND KEVIN AUS ; LANIER GREGORY R JRUS ; GUAY GERALD MUS ; KERWIN JOHN MUS ; PERET BOB DUS

Agent(s): GOWLING LAFLEUR HENDERSON LLP ; GOWLING WLG CANADA LLP ; HERNANDEZ YORCK DIPL ING ; GREENE SIMON KENNETH ; MICHELLE SAQUET TEMPLE ; MICHELLE SAQUET ; TEMPLE MICHELLE SAQUET ; TEMPTTE MICHELLE SAQUET

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

230) Family number: 71114658 (US2018257836A)

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Title: FLEXIBLE CONTAINERS WITH GRAPHICS OF RIGID CONTAINERS

Abstract: Flexible containers with graphics illustrating rigid containers.

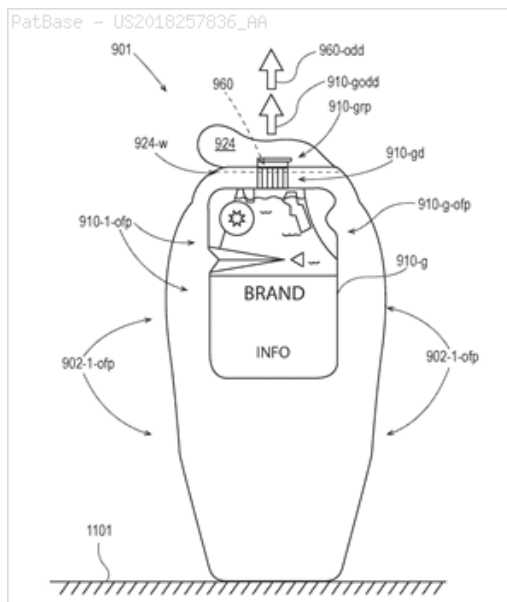
Classifications:

International (IPC 8-9): B65D35/10 B65D75/00 B65D75/52

B65D75/58 (Advanced/Invention)

CPC: B65D75/52 B65D35/10 B65D75/008 B65D75/5811

B65D2203/00



Family:

Publication number	Publication date	Application number	Application date
US2018257836 AA	20180913	US20180907419	20180228
WO18165360 A1	20180913	WO2018US21444	20180308

Priority:

US20170468445P 20170308 US20180907419 20180228

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): ARENT LEE ; ARENT LEE MATHEW ; BORCHERT VICTORIA ; BORCHERT VICTORIA ANNE ; CLARE BENJAMIN ; CLARE BENJAMIN JACOB ; LESTER JOSEPH ; LESTER JOSEPH CRAIG ; MCGUIRE KENNETH ; MCGUIRE KENNETH STEPHEN ; SAWIN PHILIP ; SAWIN PHILIP ANDREW

Agent(s): KREBS JAY A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

231) Family number: 71980663 (US2018364155A)

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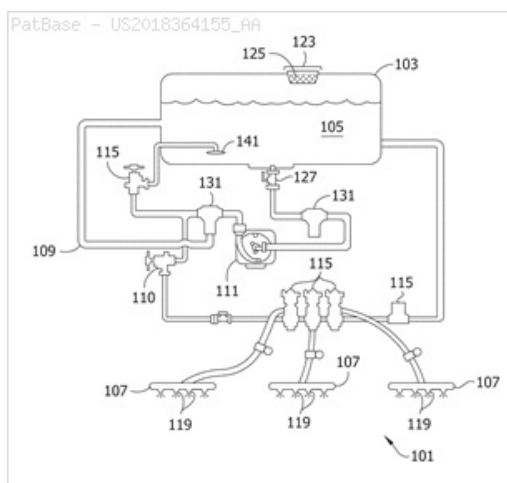
Title: DEVICES, SYSTEMS, AND METHODS FOR AGROCHEMICAL DETECTION AND AGROCHEMICAL COMPOSITIONS

Abstract: Systems, devices, and methods for detecting agrochemicals in environments associated with agricultural equipment are described. Certain agrochemicals that are formulated for being detected using the systems, devices, and methods disclosed herein are also described. The devices, systems, and methods disclosed herein are generally configured to use spectral characteristics to detect agrochemicals in an environment associated with agricultural equipment. The spectral characteristics can be analyzed in various ways to provide different types of information about the agrochemicals and/or the environment.

Classifications:

International (IPC 8-9): G01J3/02 G01N21/01 G01N21/25 G01N21/27 G01N21/31 G01N21/80 (Advanced/Invention)

CPC: G01N21/31 G01J3/0218 G01N2021/1746 G01N21/255 G01N21/80 G01N21/01 G01N21/05 G01N21/3577 G01N21/78 G01N2021/0156 G01N2021/6439 G01N2021/7786



Family:

Publication number	Publication date	Application number	Application date
US2018364155 AA	20181220	US20180982752	20180517
WO18213596 A1	20181122	WO2018US33213	20180517
WO18213596 A4	20190110	WO2018US33213	20180517

Priority:

US20170507602P 20170517 US20180982752 20180517

Probable Assignee: SPOGEN BIOTECH INC

Assignee(s): (std): NUFARM LTD ; SPOGEN BIOTECH INC

Inventor(s): (std): THOMPSON BRIAN M

Agent(s): POLLMANN JONATHAN G ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

232) Family number: 28183675 (US2002045855A)

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Title: ROTATE TO ADVANCE CATHETERIZATION SYSTEM

Abstract: A system of rotate-to-advance medical devices including catheters, dilators, occluders, stents, suprapubic catheters and camera introducers configured with external screw threads and depending substantially on rotation for means of advancement and emplacement in mammalian genitourinary and gastrointestinal passages and organs.

Classifications:

International (IPC 8-9): A61B1/00 A61B1/005 A61B1/008 A61B1/01 A61B1/018 A61B1/04 A61B1/05 A61B1/06 A61B1/07 A61B1/12 A61B1/273 A61B1/307 A61B1/31 A61B1/313 A61B1/32 A61B17/00 A61B17/22 A61B17/94 A61B19/00 A61F2/00 A61F2/04 A61F2/06 A61F2/84 A61F2/94 A61F2/95 A61F7/12 A61M1/00 A61M25/00 A61M25/01 A61M25/06 A61M25/08 A61M25/092 A61M25/10 A61M25/14 A61M27/00 A61M29/00 A61M29/02 A61M31/00 A61M36/04 A61M39/00 A61M39/10 A61M5/00 A61M5/178 G02B23/24 (Advanced/Invention); A61B1/00 A61B1/005 A61B1/015 A61B1/018 A61B1/04 A61B1/273 A61B1/307 A61B17/00 A61B17/12 A61B17/34 A61B19/00 A61F2/88 A61F2/95 A61M25/00 A61M25/01 A61M25/04 A61M25/08 A61M25/10 A61M27/00 (Advanced/Non-invention); A61B1/00 A61B1/005 A61F2/82 A61M25/00 A61M27/00 A61M5/00 (Core/Invention)

International (IPC 1-7): A61B1/00 A61B3/00 A61M1/00 A61M25/00 A61M29/00 A61M5/00 A61M5/178

CPC: A61B1/00142 A61B1/126 A61F2002/9534 A61B1/00147 A61M25/0026 A61M25/0052 A61M25/0108 A61M25/1002 A61F2/0022 A61B1/07 A61B1/00167 A61B1/32 A61B1/12 A61B1/00087 A61B1/008 A61B1/00156 A61B1/04 A61B1/00078 A61B1/00073 A61F2/94 A61B1/042 A61B2017/00685 A61B2017/349 A61F2/0009 A61F2230/0091 A61B1/00064 A61B1/00133 A61B1/01 A61B1/05 A61B17/12022 A61B2017/00805 A61B2017/1205 A61M25/04 A61B1/00128 A61B1/00137 A61B1/273 A61M25/0043 A61B1/0051 A61B1/005 A61M25/0021 A61M25/0102 A61B90/361 A61B2050/3015 A61B17/12109 A61B17/12159 A61B1/307 A61B1/00151 A61B1/0016 A61B1/31 A61M25/0017 A61M25/01 A61M29/02 A61M2025/0024 A61M2025/006 A61M2210/106 A61M2210/1064 A61M2210/1078 A61M2210/1089 A61B1/00082 A61B1/00135 A61B1/015 A61F2/88 A61M25/0068 A61M25/007 A61M25/0075 A61M25/0105 A61M27/008 A61M2025/0076 A61M2025/0191 A61M2025/1086 A61B1/00094 A61B1/00154 A61B1/018 A61B1/2736 A61M25/10 A61B1/00071 A61B1/0008 A61B1/0055 A61B17/12099 A61B17/12136 A61M25/0113 A61M25/0111

European: A61B1/005 A61B1/005B A61B1/005B6 A61B1/00E4 A61B1/00E4H A61B1/00E4H1 A61B1/00E4H6 A61B1/00H2 A61B1/00H4 A61B1/00P A61B1/00P2 A61B1/00P3 A61B1/00P4 A61B1/00P6 A61B1/01 A61B1/04 A61B1/307 A61B1/31 A61B17/12P A61B17/12P5 A61B17/12P5B A61B17/12P7B A61B17/12P7P A61F2/00B2 A61F2/06S10 A61F2/88 A61F2/94 A61M25/00H A61M25/00R A61M25/00R1M A61M25/00S A61M25/00T10 A61M25/01 A61M25/01C A61M25/01C3 A61M25/04 A61M25/10A A61M27/00C3 A61M29/02 K61B1/00 K61B1/005B6 K61B1/00E4H1 K61B1/00J K61B1/015 K61B1/018 K61B1/04D K61B1/05 K61B1/12E K61B1/273 K61B1/273D K61B1/307 K61B17/00Q2 K61B17/00R9 K61B17/12P2 K61B17/34R2D K61B19/02P33 K61B19/52D K61F2/88 K61F2/95T K61M210/10H10 K61M210/10H8 K61M210/10K K61M210/10K6 K61M25/00H K61M25/00R1A K61M25/00S K61M25/00S2B K61M25/00S8 K61M25/00T10C K61M25/00T20A K61M25/00T20A1 K61M25/01 K61M25/01A K61M25/01C K61M25/01C1 K61M25/01C3 K61M25/01S K61M25/04 K61M25/10 K61M25/10Z19 K61M27/00C3 **US:** 1/1 128/349 600/100 600/101 600/101P 600/101S 600/103 600/104 600/106 600/109 600/110 600/112 600/114 600/114P 600/114S 600/115 600/115P 600/116 600/118 600/129 600/137 600/139 600/146 600/156 600/156S 600/3 600/3P 604/103.01 604/103.08 604/103.080S 604/103.09 604/109 604/109P 604/114 604/159 604/164.01 604/164.010S 604/164.07 604/165.01 604/165.04 604/180 604/200 604/22 604/264 604/280 604/346 604/349 604/41 604/43 604/45 604/50 604/508 604/510 604/523 604/526 604/526S 604/528 604/528P 604/540 604/540P 604/544 604/544P 604/544S 604/93.01 604/93.010P 604/95 604/95.01 604/96.01 604/96.010S 606/108 606/108S 606/127 606/127S 606/159 606/191 606/191S 623/1.1 623/1.100S 623/23.7 623/23.700P 623/23.700S

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Probable Assignee: OLYMPUS CORP

Assignee(s): (std): AILINGER ROBERT ; AILINGER ROBERT E ; ANDREWS RICHARD ; ANDREWS RICHARD M ; ESSEX TECHNOLOGY INC ; FRASSICA JAMES J ; MIYOSHI HIROAKI ; OLYMPUS CORP ; OLYMPUS ENDO TECH AMERICA INC ; OLYMPUS ENDO TECHNOLOGY AMERICA INC ; TALLARIDA STEPHEN ; TALLARIDA STEVEN ; OLYMPUS OPTICAL CO ; OLYMPUS MEDICAL SYSTEMS CORP ; SPIRUS MEDICAL INC

Assignee(s): SPIRUS MEDICAL ; SPIRUS MEDICAL INC STOUGHTON ; OLYMPUS ENDO TECHNOLOGY AMERICA INC STOUGHTON

Inventor(s): (std): TALLARIDA STEVEN ; TALLARIDA STEPHEN ; ANDREWS RICHARD M ; ANDREWS RICHARD ; AILINGER ROBERT E ; AILINGER ROBERT ; MIYOSHI HIROAKI ; FRASSICA JAMES J

Inventor(s): JAMES J FRASSICA ; FRASSICA JAMES ; FRASSICA JAMES J CHELMSFORD ; ANDREWS RICHARD M LINCOLN ; AILINGER ROBERT E NORWOOD

Agent(s): DONNELLY VICTORIA; PATENTANWAELE KATSCHER HABERMANN; MUELLER AND SCHUBERT PATENTANWAELE; BABELUK MICHAEL; ENGELHARDT VOLKER; KUECHLER STEFAN; MUELLER AND SCHUBERT; ENGELHARDT AND ENGELHARDT; Engelhardt & Engelhardt; SCHICKER SILVIA; MARK J PANDISCIO PANDISCIO AND PANDISCIO; MARK J PANDISCIO PANDISCIO AND PANDISCIO PC; MARK J PANDISCIO PANDISCIO AND PANDISCIO P C; PANDISCIO AND PANDISCIO; KENYON AND KENYON LLP; ANDREWS KURTH KENYON LLP; PANDISCIO MARK J; PANDISCIO MARK; KURATA MASATOSHI ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY NZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

233) Family number: 32398675 (US2005252255A)

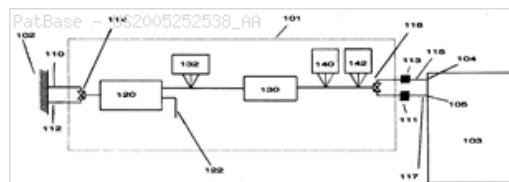
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Title: METHOD AND SYSTEM FOR WASHING

Abstract: A washing system for use in cleaning or washing a soiled substrate or substrates, the system comprising: a. a washing zone for contacting and washing the soiled substrate with wash liquor; b. a feed supply for providing hot or cold feed water to the washing zone; c. a wash liquor cleanup and recycle zone in fluid communication with the washing zone d. an effluent storage and/or discharge zone; and optionally one or more of e. a product dispensing zone; f. means for sonically or ultrasonically treating the soiled substrate in the washing zone or in a washing pre-treatment zone; g. an electrolysis zone for electrolyzing the feed water or wash liquor; h. a wash liquor disinfection zone; and i. a feed water softening zone; The wash liquor cleanup and recycle zone preferably comprises an ultrafiltration or microfiltration device having a cut-off in the range from about 1000 Daltons to about 1 mum, preferably from about 0.05 mum to about 0.5 mum, a lumen size of from about 1 to about 10 mm, preferably from about 2 to about 6 mm, more preferably from about 3 to about 5 mm, and a clean water flux of at least about 1000 L/m².h.100 kp (RO water at 25 degrees centigrade), preferably at least about 10,000 L/m².h.100 kp.

Classifications:

International (ipc 8-9): A47L15/00 A47L15/42 A47L15/44 B01D61/14 B01D61/18 B08B3/00 B66B5/02 C02F1/44 C02F5/10 C11D1/00 C11D10/02 C11D3/00 C11D3/06 C11D3/08 C11D3/12 C11D3/37 C11D3/386 C12S9/00 D06B1/00 D06F19/00 D06F33/02 D06F35/00 D06F39/00 D06F39/02 D06F39/08 D06F39/10 D06L1/12 (Advanced/Invention); A47L15/42 C02F1/44 C02F5/10 C11D1/00 D06F33/02 D06F39/00 D06F39/08 (Advanced/Non-invention); A47L15/00 A47L15/42 A47L15/44 B01D61/14 B08B3/00 B66B5/02 C02F1/00 C02F1/44 C02F5/00 C02F5/10 C11D1/00 C11D10/00 C11D3/00 C11D3/06 C11D3/08 C11D3/12 C11D3/37 C11D3/38 C12S9/00 D06F33/02 D06F35/00 D06F39/00 D06F39/02 D06F39/08 D06L1/00 (Core/Invention); C02F1/44 (Core/Non-invention)



International (ipc 1-7): A47L15/42 B08B3/00 B08B7/04 C02F1/44 C11D3/00 C12S9/00 D06F1/00 D06F19/00 D06F21/00 D06F35/00 D06F39/00 D06F39/02 D06F39/10
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; GRAY PETER G ; DUNCAN MICHAEL ; HAUGHT JOHN C ; SMETS JOHAN ; GRAY PETER GERARD ; CRUICKSHANK GRAEME DUNCAN ; HAUGHT JOHN CHRISTIAN ; GARDNER ROBB RICHARD ; GLOGOWSKI MARK WILLIAM ; BAECK ANDRE C ; BAECK ANDRE CESAR ; CONVENTS ANDRE C ; CONVENTS ANDRE CHRISTIAN ; COSTELLO ADAM ; CRUICKSHANK GRAEME D ; VAN STEENWINCKEL PASCALE CLAIR ; VERNON PAUL JOHN EDWARD ; THE PROCTER AND GAMBLE COMPANY

Assignee(s): VAN STEENWINCKEL PASCALE CLAIRE ANNICK ; PROCTER AND GAMBLE CO ; PROCTOR AND GAMBLE CO

Inventor(s): (std): GARDNER ROBB RICHARD ; GLOGOWSKI MARK WILLIAM ; MICHAEL GRAY PETER GERARD CRUI ; EDWARD VERNON PAUL JOHN ; STEENWINCKEL PASCALE CLAIRE ANNICK VAN ; VAN STEENWINCKEL PASCALE CLAIRE ANNICK ; VANSTEENWINCKEL PASCALE CLAIRE ; MICHAEL DUNCAN ; JOHAN SMETS ; CLAIR STEENWINCKEL PASCALE VAN ; CLAIR BAECK ANDRE CESAR CONVEN ; CHRISTIAN GRAY PETER GERARD CR ; CHRISTIAN CONVENTS ANDRE ; CESAR BAECK ANDRE ; ANDRE HAUGHT JOHN CHRISTIAN GL ; ANDRE GARDNER ROBB RICHARD GLO ; ADAM COSTELLO ; WILLIAM GLOGOWSKI MARK ; VERNON PAUL J E ; VAN STEENWINCKEL PASCALE CLAIR ; VAN STEENWINCKEL PASCALE C A ; RICHARD GARDNER ROBB ; HAUGHT JOHN C ; GRAY PETER G ; GERARD GRAY PETER ; GARDNER ROBB R ; DUNCAN MICHAEL ; DUNCAN CRUICKSHANK GRAEME ; CRUICKSHANK GRAEME D ; COSTELLO ADAM ; CONVENTS ANDRE C ; CHRISTIAN HAUGHT JOHN ; BAECK ANDRE C ; VERNON PAUL JOHN EDWARD ; VAN STEENWINCKEL PASCAL CLAIR ; STEENWINCKEL PASCALE CLAIRE AN ; SMETS JOHAN ; GRAY PETER GERARD ; DUNCAN MIACHAEL ; CRUICKSHANK GRAEME DUNCAN ; CONVENTS ANDRE CHRISTIAN ; BAECK ANDRE CESAR ; GLOGOWSKI MARK W ; HAUGHT JOHN CHRISTIAN

Inventor(s): GLOGOWSKI MARK ; ANDRE CHRISTIAN CONVENTS ; ANDRE CESAR BAECK ; CRUICKSHANK GRAEME ; PASCALE CLAIRE ANNICK VAN STEENWINCKEL ; GARAY PETER GERARD ; VAN STEENWINCKEL PASCAL CLAIR ANNICK ; CRUICKSHANKGRAEME DUNCAN ; GRAY PETER ; VAN STEENWINCKEL PASCALE CA ; VAN STEENWINCKEL PASCALE CLAIRE A ; VERNON PAUL JE ; BAECK ANDRE CESAR CONVENTS ANDRE CHRISTIAN SMETS J ; GRAY PETER GERARD CRUICKSHANK GRAEME DUNCAN COSTEL ; GARDNER ROBB RICHARD GLOGOWSKI MARK WILLIAM ; VANSTEENWINCKEL PASCALE CLAIRE ANNICK ; VERNON PAUL ; VAN STEENWINCKEL PASCALE ; VAN STEENWINCKEL PASCALE CLAIRE ; GARDNER ROBB ; PAUL JOHN EDWARD VERNON ; PETER GERARD GRAY ; ROBB RICHARD GARDNER ; BAECK ANDRE ; BAECK ANDRE CESAR CONVENTS ANDRE CHRISTIAN ; CONVENTS ANDRE ; CRUICKSHANKGRAEME ; GRAEME DUNCAN CRUICKSHANK ; GRAY PETER GERARD CRUICKSHANK GRAEME DUNCAN ; GRAY PETER GERARD CRUICKSHANK GRAEME DUNCAN COSTELLO ADAM DUNCAN MICHAEL ; GRAY PETER GERARD CRUICKSHANK GRAEME DUNCAN COSTELLO ADAM DUNCAN MICHAEL HAUGHT JOHN CHRISTIAN ; HAUGHT JOHN ; HAUGHT JOHN CHRISTIAN GLOGOWSKI MARK WILLIAM ; HAUGHT JOHN CHRISTIAN GLOGOWSKI MARK WILLIAM GARDN ; JOHN CHRISTIAN HAUGHT ; MARK WILLIAM GLOGOWSKI

Agent(s): PHILLIPS ORMONDE FITZPATRICK; KIRBY EADES GALE BAKER; THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION; JULIE A; LEONARD W; STEVEN W

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: ANTIMICROBIAL CHEMICAL DISPENSING FACEPLATE

Abstract: A system to sanitize water in a whirlpool bathtub, spa, swimming pool, and other water vessels comprising improvements to U.S. Pat. No. 6,395,167 and incorporating an antimicrobial chemical dispenser.

Classifications:

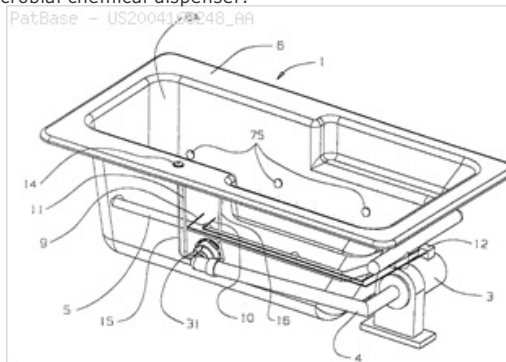
International (IPC 8-9): A47K3/00 A47K3/01 A47K3/10 A61H33/00 B01D35/02 B01D35/30 E04H4/00 (Advanced/Invention); A47K3/10 A61H33/00 E04H4/00 (Core/Invention)

International (IPC 1-7): A47K3/00 A47K3/01 A47K3/10 B01D35/02 B01D35/30 C02F1/50 C02F1/76

CPC: A61H33/0087 A61H33/6063 A61H33/6073 A61H2033/0008 A61H2033/0016 A61H2033/0037 A61H2201/0173 A61H2201/0176 A61H2033/0033

European: A61H33/00N A61H33/60E4W A61H33/60F2 K61H201/01L K61H201/01L2 K61H33/00A4 K61H33/00A4C K61H33/00A4G K61H33/00A5

US: 210/109 210/167.11 210/167.110P 210/169 4/490 4/504 4/507 4/509 4/541.1 4/541.100P 44/90 45/4 45/7 45/9



Family:

Publication number	Publication date	Application number	Application date
CA2430169 AA	20040202	CA20032430169	20030528
US2004168248 AA	20040902	US20040797837	20040310
US2004168962 AA	20040902	US20040797252	20040310
US2004205888 AA	20041021	US20040841925	20040507
US2005044619 AA	20050303	US20040928947	20040828
US2005091740 AA	20050505	US20040934230	20040903
US2005183199 AA	20050825	US20050114844	20050426
US2005273921 AA	20051215	US20050207140	20050818
US2005283902 AA	20051229	US20050212235	20050826
US2007186339 AA	20070816	US20070784599	20070409
US2009106888 AA	20090430	US20070978897	20071030
US6760931 BA	20040713	US20020211497	20020802
US6971125 BB	20051206	US20050114844	20050426
US7146659 BB	20061212	US20050207140	20050818
US7203977 BB	20070417	US20050212235	20050826
US7346938 BB	20080325	US20040934230	20040903

Priority:

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Probable Assignee: MATTSON JR ROY W

Assignee(s): (std): CHRISTINE PAULETTE ; MATTSON ROY W ; OGDEN PAULETTE ; MATTSON ROY W JR ; OGDEN PAULETTE C ; OGDEN PHILIP I ; PAULETTE C OGDEN ; OGDEN PHILIP L ; OGDEN PHILIP IREWIN ; MATTSON JR ROY W ; MATTSON REY W JR

Assignee(s): OGDEN PAULETTE C AND ROY MATTSON JR ; OGDEN PHILLIP I ; MATTSON ROY WJR ; ROY W MATTSON JR ; JR ROY W ; MATTSON ; MATTSON JR

Inventor(s): (std): MATTSON JR ROY W ; MATTSON ROY W ; MATTSON ROY W JR ; OGDEN PHILIP I ; OGDEN PHILIP L ; OGDEN PHILLIP I ; OGDEN PHILIP IREWIN ; CHRISTINE PAULETTE ; MATTSON REY W JR ; OGDEN PAULETTE ; OGDEN PAULETTE C

Inventor(s): OGDEN PHILIP ; MATTSON ROY WJR ; JR ROY W ; MATTSON ; MATTSON REY ; MATTSON REY W ; MATTSON ROY

Agent(s): GOWLING LAFLEUR HENDERSON LLP; ROY W MATTSON JR; FAEGRE AND BENSON LLP; BENJAMIN

Title: FLUID DISPENSER

Abstract: A method and apparatus for an automated biological reaction system is provided. In the processing of a biological reaction system, there is a need for consistently placing an amount of fluid on a slide. In order to accomplish this, several methods are used including a consistency pulse and a volume adjust means. Moreover, in order to reliably operate an automated biological reaction system, the dispenser must be reliable, easy to assemble and accurate. Among other things, in order to accomplish this, the dispense chamber is substantially in line with the reservoir chamber, the reservoir chamber piston is removed, and the flow of fluid through the dispenser is simplified. Further, in order to operate the automated biological reaction system more reliably, the system is designed in modular pieces with higher functions performed by a host device and the execution of the staining operations performed by remote devices. Also, to reliably catalog data which is used by the automated biological reaction system, data is loaded to a memory device, which in turn is used by the operator to update the operator's databases. The generation of the sequence of steps for the automated biological reaction device based on data loaded by the operator, including checks to determine the ability to complete the run, is provided.

Classifications:

International (IPC 8-9): A47K5/12 B01L3/02 B65D83/14 B67D5/06 B67D5/34 B67D7/06 B67D99/00 C12M1/00 G01N1/00 G01N1/14 G01N1/30 G01N1/31 G01N21/00 G01N35/00 G01N35/10 G06F19/00 G06Q50/00 (Advanced/Invention);

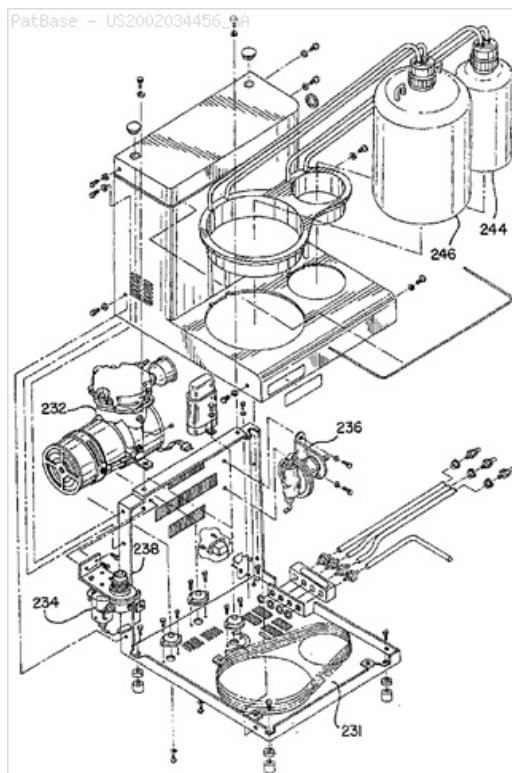
G01N1/00 G01N1/30 G01N21/75 G01N35/00 G01N35/02

G01V3/12 (Advanced/Non-invention);

G01N1/30 G01N35/00 G01N35/10 (Core/Invention)

International (IPC 1-7): A47K5/12 B01L3/02 B65D83/14 B67D5/06 B67D5/34 C01H35/10 G01N1/00 G01N1/14 G01N1/30 G01N1/31 G01N31/00 G01N35/00 G01N35/10

CPC: Y10T436/11 Y10T436/25 Y10T436/2575 G01N35/1016
G01N1/312 G01N35/00871 G01N35/1002 G01N2001/317
G01N2035/00881 G01N2035/1034 G01N35/00732 G01N1/31
G01N2035/00673 G01N2035/00782 G01N2035/00811 Y10T137/7873
Y10T436/112499 Y10T436/115831
European: G01N1/31B G01N35/00G3C G01N35/00G3L G01N35/10A
G01N35/10C3 S01N1/31 S01N1/31D S01N35/00G1D3A
S01N35/00G3C1V S01N35/00G3C2B S01N35/00G3L1 S01N35/10C3
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US: 137/519.5 141/2 141/25 141/27 141/327 222/321.7 222/321.8
222/482 222/562 222/562P 422/100 422/103 422/112 422/112S
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422/521 422/523 422/527 422/537 422/538 422/541 422/63 422/64
422/65 422/66 422/67 422/68.1 436/174 436/180 436/43 436/46
436/50 702/19 702/19P 702/22 702/22S 73/863.32 73/864
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73/864.160P



Family:

Publication number	Publication date	Application number	Application date
AU199888261 A1	19990301	AU19980088261	19980811
AU2006220449 AA	20070419	AU20060220449	20060922
AU2009225292 AA	20091029	AU20090225292	20091009
CA2301286 AA	20000211	CA19982301286	19980811
CA2301286 C	20050614	CA19982301286	19980811
CA2560628 AA	20070323	CA20062560628	20060922
CA2560628 C	20110705	CA20062560628	20060922
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DK1333287 T3	20060918	DK20030000532T	20030109
EP1004013 A1	20000531	EP19980939901	19980811
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EP1004013 B1	20150415	EP19980939901	19980811
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EP1767948 A3	20090107	EP20060020034	20060925
ES2266646 T3	20070301	ES20030000532T	20030109
JP2001512823 T2	20010828	JP20000506511T	19980811
JP2007086080 A2	20070405	JP20060259081	20060925
JP2009002952 A2	20090108	JP20080164174	20080624
JP4354000 B2	20091028	JP20080164174	20080624
JP4887107 B2	20120229	JP20060259081	20060925
US2002034456 AA	20020321	US20010896649	20010629
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US2006190185 AA	20060824	US20050234726	20050923
US2011168744 AA	20110714	US20110050707	20110317
US6045759 A	20000404	US19970995052	19971219
US6093574 A	20000725	US19970909335	19970811
US6192945 BA	20010227	US20000483606	20000114
US6416713 BA	20020709	US20000483218	20000114
US6945128 BB	20050920	US20010896649	20010629
US8137619 BB	20120320	US20050234726	20050923
US8147773 BB	20120403	US20110050707	20110317
US8609023 BA	20131217	US20000571989	20000516
WO9908090 A1	19990218	WO1998US16604	19980811

Priority:

US19970909335	19970811	US19970995052	19971219	JP20000506511	19980811
JP20000506511T	19980811	WO1998US16604	19980811	US19990469601	19991221
US20000483218	20000114	US20000483606	20000114	US20000571989	20000516
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US20050234726	20050923	AU20060220449	20060922	CA20062560628	20060922
AU20090225292	20091009	US20110050707	20110317		

Probable Assignee: VENTANA MEDICAL SYSTEMS INC

Assignee(s): (std): DRUYOR SANCHEZ BOBBI ; DRUYOR SANCHEZ ROBERTA ; FORD ANTHONY ; HEILMAN BRONWEN ;

Assignee(s): LEMME CHARLES D ; MCDANIEL DARIN ; VENTANA MED SYST INC ; VENTANA MEDICAL SYSTEMS ; VENTANA MEDICAL SYST INC ; MCGRAW BRIAN ; SHOWALTER WAYNE ; MEAD STEPHEN ; RICHARDS WILLIAM ; RIZZO VINCE ; RIZZO JR VINCENT R

Inventor(s): (std): DRUYOR SANCHEZ BOBBI ; DRUYOR SANCHEZ ROBERTA ; FORD ANTHONY ; HEILMAN BRONWEN ; LEMME CHARLES ; LEMME CHARLES D ; MC DANIEL DARIN ; MCDANIEL DARIN ; MCDONALD DARIN ; MCGRAW BRIAN ; MCGRAW BRIAN J ; MEAD STEPHEN ; RICHARDS WILLIAM ; RICHARDS WILLIAM L ; RIZZO JR VINCENT R ; RIZZO VINCE ; RIZZO VINCENT R ; RIZZO VINCENT R JR ; SHOWALTER WAYNE ; SHOWALTER WAYNE A

Inventor(s): STEPHEN MEAD ; VINCE RIZZO ; WAYNE SHOWALTER ; WILLIAM RICHARDS ; RIZZO VINCENT RJR ; ANTHONY FORD ; BOBBI DRUYOR SANCHEZ ; BRIAN MCGRAW ; BRONWEN HEILMAN ; DARIN MCDANIEL ; DARIN MCDONALD ; RIZZO VINCENT

Agent(s): SPRUSON AND FERGUSON; DENNISON ASSOCIATES; KREMER SIMON MARK; MUELLER-BORE AND PARTNER PATENTANWALTE; MCDONNELL BOEHNEN HULBERT AND BERGHOFF LLP; MUIRHEAD AND SATURNELLI LLC; HAYES SOLOWAY PC; HUW R

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RS RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

236) Family number: 63740685 (US2016362228A)

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Title: FLEXIBLE CONTAINERS WITH PRODUCT DISPENSING VISIBILITY

Abstract: Flexible containers having with product dispensing visibility.

Classifications:

International (IPC 8-9): B65D25/02 B65D25/54 B65D35/10

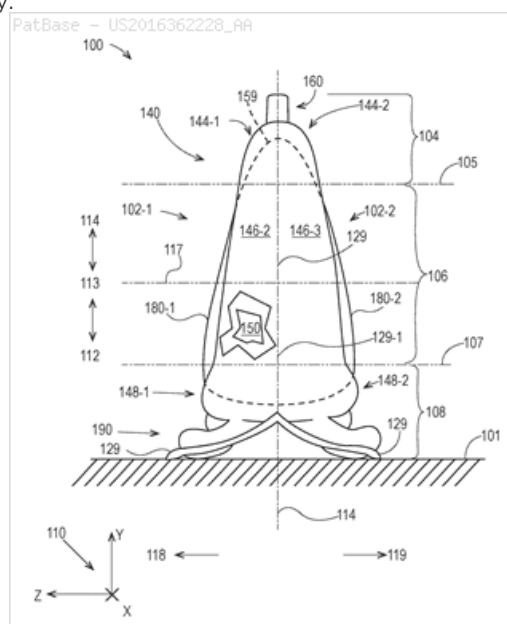
B65D35/24 B65D37/00 B65D75/00 B65D75/52

B65D75/58 (Advanced/Invention)

CPC: B65D35/10 B65D25/54 B65D25/02 B65D35/24 B65D75/008

B65D75/52 B65D75/525 B65D75/5872 B05B11/00412

US: 222/156



Family:

Publication number	Publication date	Application number	Application date
BR112017021706 A2	20180710	BR20171121706	20160408
CA2981731 AA	20171003	CA20162981731	20160408
CA2981731 C	20190312	CA20162981731	20160408
CN107428437 A	20171201	CN201680021166	20160408
EP3280656 A1	20180214	EP20160719989	20160408
JP2018511535 T2	20180426	JP20170553146T	20160408
KR20170135927 A	20171208	KR20177032299	20160408
MX2017012986 A1	20180130	MX20170012986	20160408
US2016362228 AA	20161215	US20160094293	20160408
US10017300 BB	20180710	US20160094293	20160408
WO16164686 A1	20161013	WO2016US26588	20160408

Priority:

US20150145681P 20150410

US20160094293 20160408

WO2016US26588 20160408

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO

Assignee(s): STANLEY SCOTT KENDYL ; PROCTER AND GAMBLE CO ; ARENT LEE MATHEW ; BERG CHARLES JOHN ; MCGUIRE KENNETH STEPHEN

Inventor(s): (std): BERG CHARLES JOHN ; ARENT LEE MATHEW ; SCOTT KENDYL STANLEY ; LEE MATHEW ARENT ; KENNETH STEPHEN MCGUIRE ; CHARLES JOHN BERG ; BERG JR CHARLES JOHN ; STANLEY SCOTT KENDYL ; MCGUIRE KENNETH STEPHEN

Inventor(s): BERG JR

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; TANI AND ABE PC; JEFFREY V; CHARLES R; KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG

237) Family number: 49332685 (US2011180101A)

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Title: MULTI-SURFACE ACIDIC BATHROOM CLEANING SYSTEM

Abstract: A multi-surface bathroom cleaning system is described that allows for easier cleaning of all bathroom surfaces from all angles, especially under the rim of a toilet bowl, and which comprises an acid/nonionic composition contained in and dispensable from a package comprising an angled-neck sprayer bottle fitted with an invertible trigger sprayer assembly, wherein the cleaning system may be used in an entirely upside-down orientation to spray upwards at an acute angle.

Classifications:

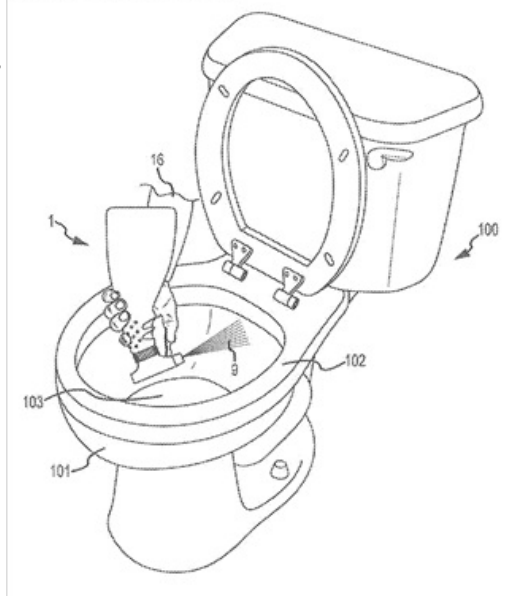
International (IPC 8-9): A47K11/10 A47L25/00 B05B17/00 B08B3/08 B08B7/00 B08B9/08 B08B9/093 C11D17/08 G01F11/00 (Advanced/Invention)

CPC: C11D1/146 C11D1/24 C11D3/3956 B05B11/3011 B05B11/0037 A47L13/26 B05B11/0059 B05B11/3009 C11D1/14 C11D1/29 C11D1/662 C11D1/72 C11D1/75 C11D1/83 C11D3/042 C11D3/2075 C11D3/2082 C11D3/2086 C11D17/041

European: A47L13/26 B05B11/00B5 C11D1/83 C11D17/04B C11D3/04A C11D3/20E C11D3/20E3 C11D3/20E5 L05B11/00B6 L05B11/30C5 L05B11/30C5B M11D1/14 M11D1/29 M11D1/66B M11D1/72 M11D1/75

US: 134/22.19 134/6 134/6P 134/8 222/323 239/1 239/1P 510/191 510/191S 510/238 510/238S

PatBase - US2011180101_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2011180101 AA	20110728	US20100693043	20100125
US2011180619 AA	20110728	US20100938048	20101102
US2012234352 AA	20120920	US20120472177	20120515
WO11090823 A2	20110728	WO2011US20304	20110106
WO11090823 A3	20111117	WO2011US20304	20110106

Priority:

US20100693043 20100125 US20100938048 20101102 US20120472177 20120515

Probable Assignee: DIAL CORP**Assignee(s):** (std): AKRE NICOLE ; DIAL CORP ; JACOKES KRISTEN ; KONISHI GREGORY A**Inventor(s):** (std): AKRE NICOLE ; KONISHI GREGORY A ; JACOKES KRISTEN**Agent(s):** PAPPALARDO PAUL A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

238) Family number: 59133691 (US2015121810A)

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Title: FLEXIBLE CONTAINERS AND METHODS OF MAKING THE SAME

Abstract: A method of expanding a structural support volume of a flexible container can include dispensing a cryogenic fluid into at least one structural support volume and sealing the at least one structural support volume such that it has a closed volume prior to complete conversion of the cryogenic fluid into a gas and expansion of the structural support volume to a pressurized state. The flexible container includes a product volume and at least a portion of the structural support volume extends into the product volume when the structural support volume is expanded.

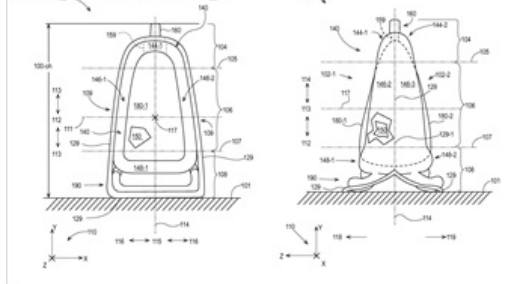
Classifications:

International (IPC 8-9): B65B1/02 B65B3/02 B65B31/00 B65B31/04 B65B39/00 B65B5/02 B65B9/20 B65D1/40 B65D30/16 B65D33/02 B65D75/00 B65D75/52 B65D75/58 (Advanced/Invention)

CPC: B65B31/006 B65B39/007 B65D2207/00 B65D75/00 B65B1/02 B65B3/02 B65B5/02 B65B9/2049 B65B31/00 B65D75/008 B65D75/525 B65D75/5872

US: 53/434

PatBase - US2015121810_AA

**Family:**

Publication number	Publication date	Application number	Application date
BR112016010152 A2	20170801	BR20161110152	20141106
CA2926351 AA	20160404	CA20142926351	20141106
CN105705433 A	20160622	CN201480061155	20141106
CN105705433 B	20180126	CN201480061155	20141106
EP3066026 A1	20160914	EP20140806119	20141106
ID201705668 A	20170526	ID2016P0002506	20141106
IN201617011734 A	20160819	IN201617011734	20160402
JP2016535708 A2	20161117	JP20160552478	20141106
JP2016535708 T2	20161117	JP20160552478T	20141106
JP2018108866 A2	20180712	JP20180076272	20180411
KR101936484 B1	20190108	KR20167011785	20141106
KR20160067162 A	20160613	KR20167011785	20141106
MX2016005516 A1	20160722	MX20160005516	20141106
PH2016500835 A	20160613	PH20160500835	20160505
RU2016112351 A	20171211	RU20160112351	20141106
US2015121810 AA	20150507	US20140534214	20141106
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WO15069822 A1	20150514	WO2014US64210	20141106

Priority:

US20130900810P 20131106 JP20160552478T 20141106 US20140534214 20141106
WO2014US64210 20141106 JP20180076272 20180411

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): LESTER JOSEPH CRAIG ; YOU JUN ; STANLEY SCOTT KENDYL ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; COX DONALD JOSEPH ; ISHIHARA TADAYOSHI ; PROCTER AND GAMBLE CO

Inventor(s): (std): BENJAMIN JACOB CLARE ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; COX DONALD JOSEPH ; CRAIG LESTER JOSEPH ; DONALD JOSEPH COX ; ISHIHARA TADAYOSHI ; ISHIHARA TADAYOSHI ; JACOB CLARE BENJAMIN ; JOSEPH COX DONALD ; JOSEPH CRAIG LESTER ; KENDYL STANLEY SCOTT ; LESTER JOSEPH CRAIG ; MARC RICHARD BOURGEOIS ; RICHARD BOURGEOIS MARC ; SCOTT KENDYL STANLEY ; STANLEY SCOTT KENDYL ; TADAYOSHI ISHIHARA ; YOU JUN ; YOUJUN

Inventor(s): TADAYOSHI ISHIHARA ; JUN YOU

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; MAULITTA PRAMULASARI; TANI AND ABE PC; WEIRICH DAVID M; CAMP JASON J; GUFFEY TIMOTHY B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

239) Family number: 43401704 (US2004175328A)

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Title: SPRAY-DRIED MICROPARTICLES AND THEIR USE AS THERAPEUTIC VEHICLES

Abstract: Microparticles of a water-soluble material, which are smooth and spherical, and at least 90 percent of which have a mass median particle size of 1 to 10 μm, and which carry a therapeutic or diagnostic agent can successfully be used in dry powder inhalers to deliver the said agent.

Classifications:

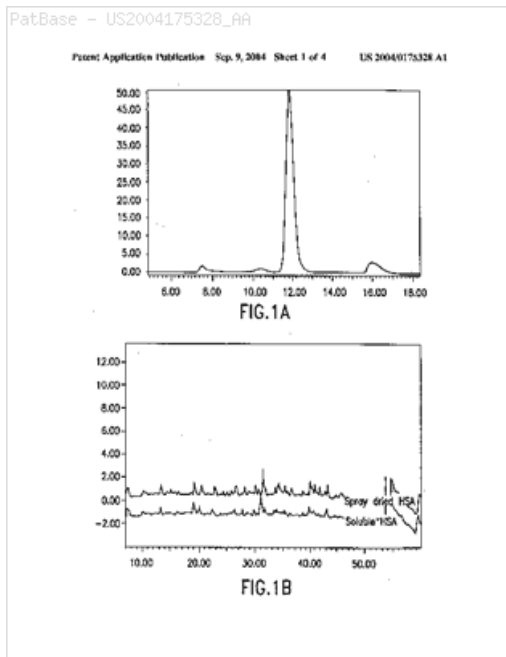
International (IPC 8-9): A61B8/14 A61K38/00 A61K38/43 A61K47/48 A61K49/00 A61K49/14 A61K49/22 A61K9/00 A61K9/16 A61K9/19 A61K9/50 A61K9/52 A61K9/72 A61M15/00 A61P11/00 A61P25/24 A61P25/26 B01J13/02 B01J13/04 B01J13/14 (Advanced/Invention); A61B8/14 A61K38/00 A61K38/43 A61K49/00 A61K9/19 A61K9/72 A61M15/00 A61P11/00 (Advanced/Non-invention); A61B8/14 A61K49/00 A61K49/06 A61K49/22 A61K9/16 A61K9/50 B01J13/02 B01J13/04 B01J13/06 (Core/Invention); B01J (Subclass/Invention)

International (IPC 1-7): A61B8/00 A61B8/02 A61B8/14 A61K38/00 A61K38/43 A61K47/48 A61K49/00 A61K49/22 A61K9/00 A61K9/14 A61K9/16 A61K9/19 A61K9/50 A61K9/72 A61M15/00 A61P11/00 B01J13/02 B01J13/04 B01J13/20 B29C67/22

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European: A61K49/00 A61K49/22P4 A61K49/22P8 A61K9/00M20B3 A61K9/16P2 A61K9/16P4 A61K9/50P B01J13/04 B01J13/04B B01J13/14

US: 106/122 106/124 106/125 106/158.1 106/159.1 106/160.1 106/646 128/660.01 128/660.02 128/660.05 128/661.04 128/662.02 252/314 252/363.5 264/4.3 264/4.6 424/46 424/491 424/491S 424/499 424/9.32 424/9.320P 424/9.5 424/9.52 424/9.6 424/94.1 424/94.3 424/94.4 514/965 516/77 516/928 600/437 600/438 600/441 600/443 600/450 600/453 600/458



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: QUADRANT DRUG DELIVERY LTD

Assignee(s): (std): ANDARIS LTD ; DELTA BIOTECHNOLOGY LTD ; ELAN DRUG DELIVERY LTD ; QUADRANT HEALTHCARE UK LTD ; QUADRANT DRUG DELIVERY LTD ; MOONBROOK LIMITED ; MOONBROOK LTD

Assignee(s): ANDARIS LIMITED ; KVADRANT KHEHLTKEHA ; QUADRANT HEALTHCARE (UK) LTD ; QUADRANT DRUG DELIVERY LTD RUDDINGTON ; QUADRANT HEALTHCARE UK LTD RUDDINGTON ; SUTTON ANDREW DEREK ; SENIOR JAMES PETER ; SUTTON DEREK ANDREW ; ELAN DRUG DELIVERY LTD RUDDINGTON ; KVADRANT KHEHLTKEHA (JU KEJ) LIMITED ; JOHNSON RICHARD ALAN ; ELAN DRUG DELIVERY LTD ; PHARMACEUTICAL PROJECTS LTD ; QUADRANT HEALTHCARE LTD ; QUADRANT HEALTHCARE UK LIMITED ; QDOSE LTD ; SUTTON ANDREW D ; SENIOR PETER J ; QUADRANT DRUG DELIVERY LIMITED ; JOHNSON RICHARD A ; HEATH DAVID ; ELAN DRUG DELIVERY LIMITED ; DELTA BIOTECHNOLOGY LTD GB ; ELAN DRUG DELIVERY LIMITED ; ANDARIS LTD ; DELTA BIOTECHNOLOGY LIMITED

Inventor(s): (std): SUTTON ANDREW DEREK ; SUTTON ANDREW D ; SUTTON ANDERW DEREK ; SUTTON DEREK ANDREW ; SENIOR PETER JAMES ; SENIOR PETER J ; HEATH DAVID ; JOHNSON RICHARD ALAN ; JOHNSON RICHARD A ; JOHNSON RICHARD ; JOHNSON RICHARD ALAN

Inventor(s): HIIISU DEIBITSUDO ; HEATH DAVID GB ; HEATH DAVID DELTA BIOTECHNOLOGY LTD ; EHNDJRJ DEREK SATTON[GB] ; EHNDJRJ DEREK SATTON ; DEHVID KHIT[GB] ; DEHVID KHIT ; DAVID HEATH ; ANDREW DEREK SUTTON ; SENIOR JAMES PETER ; SATSUTON ANDORUU DEREKU ; RICHARD ALAN JOHNSON ; RICHARD ALAN DZHONSON[GB] ; RICHARD ALAN DZHONSON ; PITER DZHEJMS SINIOR[GB] ; PITER DZHEJMS SINIOR ; PETER JAMES SENIOR GB ; PETER JAMES SENIOR ; JONSON RICHADO ARAN ; JOHNSON RICHARD ALAN GB ; JOHNSON RICHARD ALAN DELTA BIOTECHNOLOGY LTD ; SENIOR PETER JAMEO ; SUTTON ANDREW DEREK GB ; SUTTON ANDREW DEREK DELTA BIOTECHNOLOGY LTD ; SITTON ANDREW DEREK GB ; SHIINIA PIITAA JEEMUZU ; SENIOR PETER JAMES GB ; SENIOR PETER JAMES DELTA BIOTECHNOLOGY LTD

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BERESKIN AND PARR; STEVENS IAN EDWARD; REINHOLD COHN AND PARTNERS

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CS CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG US UZ VN

240) Family number: 31875707 (US2007209133A)

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Title: MULTI-FUNCTION SURFACE TREATMENT TOOL

Abstract: A chemical-mechanical applicator for treating and cleaning surfaces in the domestic, automotive aftermarket, personal care and cosmetic sectors. The applicator wets, agitates/massages, and scrapes off residue leaving a surface dry and clean without soiling users hands. The applicator is a blade like device integrated with a dispenser device that is coupled to one or more reservoirs from which fluids are dispensed onto a surface. The blade carries a multiplicity of pads interspersed with scraper edges. The pads are used for rubbing and swabbing off. The scrapers are used for scraping and drying by squeeze action, the collected up used fluids retained within the blade.

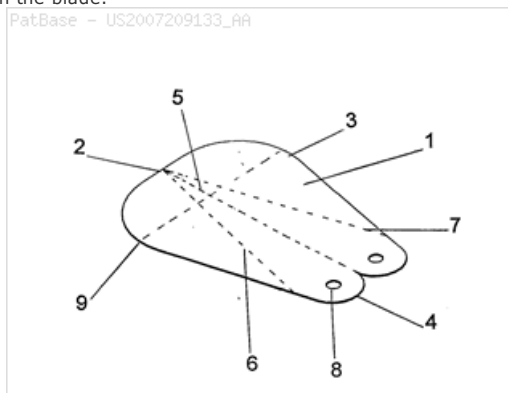
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A47L13/22 A47L13/26 A47L13/28 A61H7/00 A61M35/00 B05C1/00
B05C11/00 B43K5/00 B65D83/04 B65D83/08
B65D83/14 (Advanced/Invention);
A45D26/00 A45D27/04 B60S3/04 (Advanced/Non-invention);
A45D26/00 A45D27/00 A45D34/04 A45D44/00 A47L1/00 A47L13/10
A47L13/20 A61H7/00 A61M35/00 B65D83/04 B65D83/08
B65D83/14 (Core/Invention);
A45D26/00 B60S3/04 (Core/Non-invention)

International (IPC 1-7): A45D27/22 A45D34/04 A47L13/10
A47L13/12 A47L13/28 B05C1/00 B65D83/14
CPC: A45D2200/1018 A45D2200/1054 A45D2200/1063
A45D2200/207 A47L13/26 A47L13/10 A47L13/12 A47L13/28
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A61H7/004 A61H7/003 B65D83/08 A61H7/001 A61H7/002 A61H7/00
A45D2200/1036 A45D40/24 A45D27/22 A45D27/04 A45D26/00
A45D34/04

European: A45D27/22 A45D34/04 A45D40/24 A47L13/10 A47L13/12 A47L13/26 A47L13/28 A61H7/00 A61H7/00B
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US: 1/1 15/209.1 15/209.100P 221/45 221/45P 401/261 401/266 601/138 601/138P



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Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: BALL BURNISHING MACH TOOLS

Assignee(s): (std): BALL BURNISHING MACH TOOLS ; LINZELL GEOFFREY R ; LINZELL GEOFFREY ROBERT

Assignee(s): BALL BURNISHING MACHINE TOOLS LIMITED ; BALL BURNISHING MACHINE TOOLS LTD ; BALL BURNISHING MACHINE TOOLS LTD HATFIELD

Inventor(s): (std): LINZELL GEOFFREY R ; LINZELL GEOFFREY ROBERT ; ROBERT LINZELL GEOFFREY

Inventor(s): GEOFFREY ROBERT LINZELL ; LINZELL GEOFFREY

Agent(s): GRUENECKER PATENT U RECHTSANWALTE PARTG MBB; SYNNESTVEDT AND LECHNER LLP; FOX ROTHSCHILD LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

241) Family number: 2186710 (US4765515A)

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Title: Liquid dispensing combination

Abstract: A liquid dispensing combination includes a mounting unit having a base and a cover. A dispensing unit including a supply reservoir and a spring load pump and nozzle is supported on the base and has a portion which projects through and is accessible from the bottom of the base and cover so that the dispensing unit can be moved upwardly relatively of the mounting unit to depress the pump and dispense a variably predetermined amount of the contents through the nozzle.

Classifications:

International (IPC 8-9): A47K5/12 B65D47/34 B65D83/00

C11D17/08 (Advanced/Invention);

B65D47/34 B65D83/00 C11D17/08 (Advanced/Non-invention);

A47K5/00 B65D47/34 B65D83/00 C11D17/08 (Core/Invention)

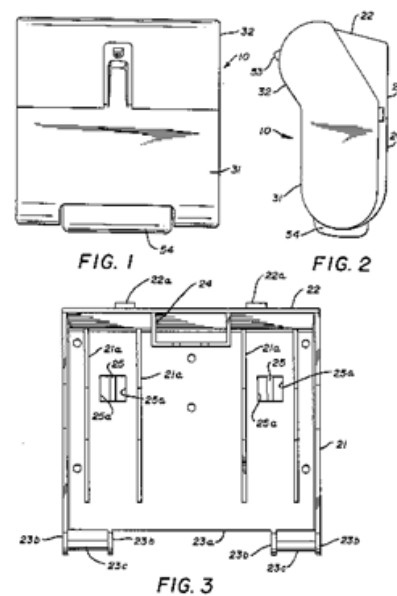
International (IPC 1-7): A47K5/10 A47K5/12 A47K5/122 B65D47/34

B65D83/00 B67D5/00 B67D5/64 C11D17/08 F04B9/14

CPC: A47K5/12

European: A47K5/12

US: 222/162 222/180

**Family:**

Publication number	Publication date	Application number	Application date
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GB8625378 A0	19861126	GB19860025378	19861023
JP62271867 A2	19871126	JP19870104176	19870427
US4765515 A	19880823	US19860856790	19860428

Priority:

US19860856790 19860428

Probable Assignee: GOJO IND**Assignee(s):** (std): LIPPMAN J ; LIPPMAN JEROME ; JIEROUMU RITSUPUMAN**Assignee(s):** GOJO IND ; GOJO INDUSTRIES ; JEROM LIPPMAN ; JEROME LIPPMAN**Inventor(s):** (std): JIEROUMU RITSUPUMAN ; LIPPMAN JEROME ; LIPPMAN JEROM**Inventor(s):** JEROM LIPPMAN ; JEROME LIPPMAN**Agent(s):** WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD**242) Family number: 49905711** (US2012048959A)

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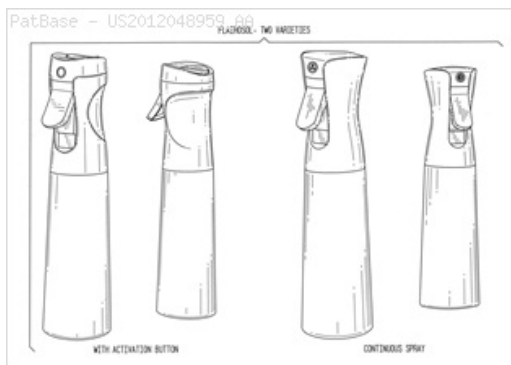
Title: SPRAYER DEVICE WITH AEROSOL FUNCTIONALITY ("FLAIROSOL")

Abstract: In exemplary embodiments of the present invention, Flair(R) based aerosol-type devices can be provided. Such devices utilize a combination of Flair(R) technology, pre-compression valves and aerosol like pressurization of the dispensed liquid. Such a dispensing device has a main body comprising a pressure chamber, the latter being provided with a pressure piston and a pressure spring. The device further has a piston and a piston chamber which draws liquid from a reservoir and fills the pressure chamber with that liquid as a user operates the trigger in various compression and release strokes. The piston chamber has both an inlet valve and an outlet valve. In a dispensing head a valve is provided to regulate the strength of the flow and preclude leakage. Once the liquid is sufficiently pressurized, it can be dispensed by a user opening an activation valve, such as by pressing on an activation button, and spray can be abruptly stopped by a user ceasing to push on such button. Or, for example, in alternate embodiments without an activation button, once the liquid is sufficiently pressurized, continuous spray occurs until the pressure chamber is emptied. By repeatedly pumping the trigger before the pressure chamber is fully emptied, continuous spray can be achieved. By designing the input volume to be amply greater than the volume of the pressure chamber, continuous spray with fewer pumping strokes can be implemented.

Classifications:

International (IPC 8-9): A01G25/09 A62C11/00 B01J4/00 B05B B05B11/00 B05B11/04 B05B7/00 B05B7/04 B05B7/12 B05B7/24 B05B7/32 B05B9/04 B05B9/08 B05C17/01 B65D83/00 B65D83/14 B65D83/34 B65D83/62 B65D88/54 B67D B67D3/00 B67D7/58 D01H13/14 D01H13/16 D01H5/00 G01F11/00 (Advanced/Invention); B05B11/00 B65D83/70 (Advanced/Non-invention)
International (IPC 1-7): B05B9/04 B65D83/14
CPC: B05B7/0416 B05B7/0491 B05B7/2416 B05B11/3087 B05B7/0025 B05B11/3014 B05B11/3064 B05B7/0483 B05B11/0002 B05B9/0822 B05B11/3009 B05B11/0064 B05B11/0075 B05B11/3039 B05B11/304 B05B11/3047 B05B11/3056 B05B11/3059 B65D83/70 B05B9/0883 B05B11/0027 B05B11/3011 B05B15/555 B05B11/3001 B65D83/62 B05B11/00446 B05B11/00412
European: B05B11/00B2F B05B11/00B5A2 B05B11/30C5E2

B05B11/30F5 B05B11/30H6 B05B9/08A2B2
US: 222/1 222/153.13 222/1S 222/340 222/341 222/383.1
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Locarno class: 09/01



Family:

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IN10561DN2013 A	20160520	IN2013DN10561	20131209
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US2013112766 AA	20130509	US20120623860	20120920
US2015008267 AA	20150108	US20140323471	20140703
US2017333930 AA	20171123	US20170589519	20170508
US2018185864 AA	20180705	US20170426758	20170207
US8905271 BB	20141209	US20110068267	20110505
US9714133 BB	20170725	US20120623860	20120920
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Priority:

US20100343977P	20100505	US20100456349P	20101104	AU20110248959	20110505
US20110068267	20110505	WO2011US00805	20110505	US20110518677P	20110509
US20110626067P	20110920	US20110374683F	20110920	US20110289874	20111104
US20120595472P	20120206	US20120623492P	20120412	US20120467971	20120509
WO2012US37167	20120509	AU20120312279	20120920	US20120623860	20120920
WO2012US56435	20120920	US20130477563F	20131223	US20140323471	20140703
US20170426758	20170207	US20170589519	20170508	AU20170203729	20170602
AU20180200446	20180119				

Probable Assignee: DISPENSING TECHNOLOGIES BV

Assignee(s): (std): HURKMANS PETRUS LAMBERTUS WILHELMUS ; HALEVA AARON S ; MAAS WILHELMUS JOHANNES JOSEPH ; DISPENSING TECHNOLOGIES BV ; DISPENSING TECHNOLOGIES B V ; NERVO PAOLO ; DISPENSING TECHNOLOGIES BV ; DISPENSING TEKNOLODZHIZ BV ; DISPENSING TECH BV ; DISPENSING TECHNOLOGIES B V

Assignee(s): NIBC BANK NV

Inventor(s): (std): KHALEVA AARON S ; KHJURKMANS PETRUS LAMBERTUS WILHELMUS ; MAAS WILHELMUS JOHANNES JOSEPH ; MAS WILHELMUS JOHANNES JOSEF ; NERVO PAOLO ; NERVO PAULO ; PAOLO NERVO ; PETRUS LAMBERTUS WILHELMUS HURKMANS ; PETRUS LAMBERTUS WILHELMUS HURKMANS ; WILHELMUS JOHANNES JOSEPH MAAS ; AARON S HALEVA ; HALEVA AARON S ; HURKMANS PETRUS LAMBERTUS WILHELM ; HURKMANS PETRUS LAMBERTUS WILHELMUS ; HURKMANS PETRUS LAMBERTUS WILHELMUS ; HURKMANS PETRUS LAMBERTUS WILHELMUS

Inventor(s): JOSEPH WILHELMUS JOHANNES MAAS ; AARON HALEVA ; WILHELMUS PETRUS LAMBERTUS HURKMANS

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; LAWRENCE JOHN; YAMAZAKI HIROSHI; TANAKA MITSUO; OHATA YASUSHI; MAEDA ATSUSHI; MAEHORI YOSHIYUKI; KRAMER LEVIN NAFTALIS AND FRANKEL LLP; SCHWABE WILLIAMSON AND WYATT PC; AARON HALEVA ET AL; HALEVA AARON S; HALEVA AARON

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT HW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

243) Family number: 24719 (AT302536B)

© PatBase

Title: VORRICHTUNG AN APPARATEN ZUR PORTIONSWEISEN ENTNAHME FLUESSIGER ODER PASTOESER ERZEUGNISSE AUS EINEM BEHAELTER DEVICE OF APPARATUS FOR REMOVING LIQUID OR PASTY PRODUCTS SERVING FROM A CONTAINER (Machine translation)

Abstract: Source: AT302536B [DE] [Source: Claim 1] 1. Vorrichtung an Apparaten zur portionsweisen Entnahme fluessiger oder pastoeser Erzeugnisse aus einem Behaelter, wobei die Apparate mit je einem Pumpengehaeuse versehen sind, das inwendig mit einem Durchlaufkanal und einer Ventilkammer, in die ein Ventil eingesetzt ist, ausgebildet ist,

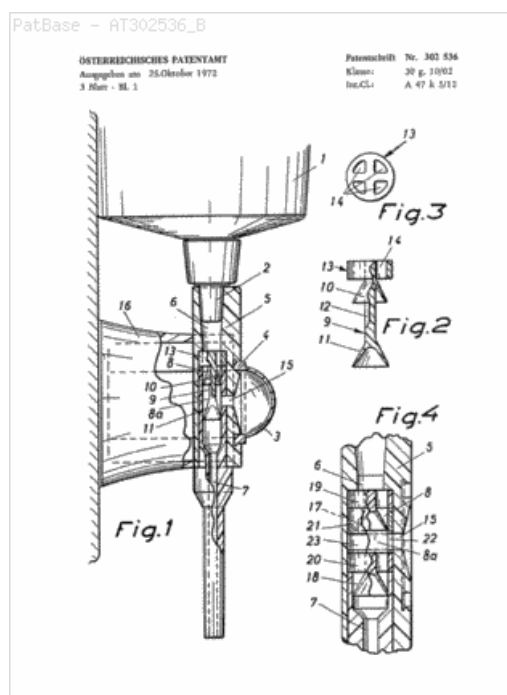
Machine translation: [Source: claim 1] 1. device of apparatus for removing liquid or paste-like products from a container, which are devices with ever a pump housing that is internally trained with a flow channel and a valve Chamber, in which a valve is used, serving

Classifications:

International (IPC 8-9): A47K5/12 (Advanced/Invention);

A47K5/00 (Core/Invention)

International (IPC 1-7): A47K5/12



Family:

Publication number	Publication date	Application number	Application date
AT302536 B	19721025	AT19690009596	19691013

Priority:

SE19680015318 19681108

Probable Assignee: PERPEDOS AB

Assignee(s): (std): PERPEDOS AB

Inventor(s): (std): BENSON GUSTAV ERIC VALDEMAR

Inventor(s): GUSTAV ERIC VALDEMAR BENSON

244) Family number: 23351722 (US6386390B)

© PatBase

Title: Automatic soap dispenser

Abstract: A dispenser has a container for a liquid, a vent opening to allow air into the container, a valve to control the

admission of air into the container, and a dispensing opening for the liquid to be dispensed therefrom. The dispenser is mounted with the dispensing opening at the bottom. When the valve is closed, a pressure differential is created that prevents the liquid in the container from flowing out. Upon opening of the vent valve, the pressure differential is reduced and dispensing can continue. Such a dispenser can be used to dispense fluids of varying viscosities and even nonporous solids. In one embodiment of the invention, an infrared radiation emitter and an infrared radiation detector are arranged in such a manner that, when a hand is placed below the dispenser, radiation from the emitter impinges on the hand and is reflected to the detector. Upon sensing the reflected radiation, the detector causes the valve for the vent tube to open so that the pressure differential in the container is eliminated and the liquid can be dispensed. When the hand is withdrawn, the detector no longer senses radiation from the emitter and causes the valve for the vent tube to close reestablishing the pressure differential that stops the outflow of liquid. The dispensing opening is preferably in the form of an S-shaped tube to prevent dripping of the liquid, such as soap, when the valve is closed.

Classifications:

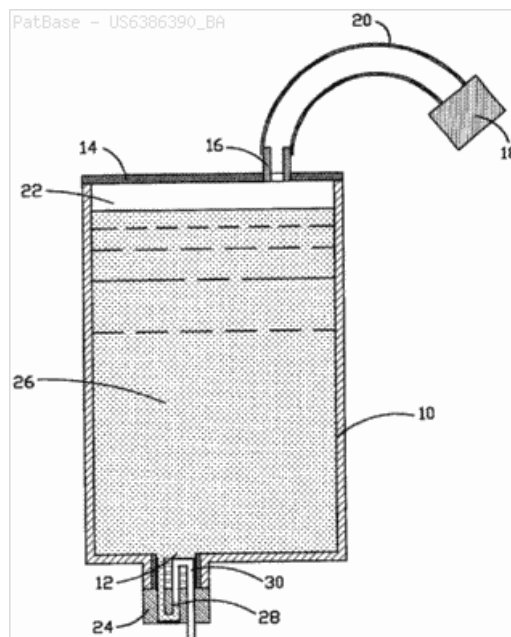
International (IPC 8-9): A47K5/12 (Advanced/Invention);
A47K5/00 (Core/Invention)

International (IPC 1-7): B67D5/08

CPC: A47K5/1211

European: A47K5/12D

US: 222/52 222/571 250/221



Family:

Publication number	Publication date	Application number	Application date
US6386390 BA	20020514	US19990452592	19991201

Priority:

US19990452592 19991201

Probable Assignee:

FSNC LLC

Assignee(s): (std):

TINKER FRANK A

Assignee(s):

FSNC LLC

Inventor(s): (std):

TINKER FRANK A

245) Family number: 31746723 (US2005058673A)

© PatBase

Title: ANTIMICROBIAL COMPOSITIONS AND METHODS

Abstract: Antimicrobial compositions, especially those useful when applied topically, particularly to mucosal tissues (i.e., mucous membranes), including a fatty acid ester, fatty ether, or alkoxide derivative thereof. The compositions can also include an enhancer component, a surfactant, a hydrophobic component, and/or a hydrophilic component. Such compositions provide effective topical antimicrobial activity and are accordingly useful in the treatment and/or prevention of conditions that are caused, or aggravated by, microorganisms (including viruses).

Classifications:

International (IPC 8-9): A01N25/02 A01N37/02 A01N37/06 A61K31/00 A61K31/08 A61K31/19 A61K31/22 A61K31/23 A61K31/231 A61K31/25 A61K31/7016 A61K45/06 A61K47/06 A61K47/08 A61K47/10 A61K47/12 A61K47/14 A61K47/18 A61K47/20 A61K47/24 A61K47/44 A61K9/00 A61K9/06 A61P1/00 A61P11/00 A61P17/00 A61P17/02 A61P27/16 A61P31/00 A61P31/04 A61P31/10 A61P31/12 (Advanced/Invention);

A61K31/19 A61K31/231 A61K47/44 A61P31/04 (Advanced/Non-invention);

A61K31/00 A61K31/075 A61K31/185 A61K31/21 A61K31/7016 A61K45/00 A61K47/06 A61K47/08 A61K47/10 A61K47/12 A61K47/14 A61K47/16 A61K47/20 A61K47/24 A61K47/44 A61K9/00 A61K9/06 A61P1/00 A61P11/00 A61P17/00 A61P27/00 A61P31/00 (Core/Invention)

International (IPC 1-7): A61K31/00 A61K31/19 A61K31/20 A61K31/225 A61K31/23 A61K31/231 A61K31/25 A61K7/00 A61K9/00 A61P31/00

CPC: A61K31/23 A61K9/0014 A61K9/0043 A61K9/0046 A61K9/0053 A61K9/007 A61K31/25 A61K45/06 A61K47/06 A61K47/10 A61K47/12 A61K47/14 A61K47/20 A61K31/19 A61K31/231 A61K47/44 Y02A50/473

European: A61K31/19 A61K31/23 A61K31/231 A61K31/25 A61K45/06 A61K47/06 A61K47/10 A61K47/12 A61K47/14 A61K47/20 A61K47/44 A61K9/00M A61K9/00M14 A61K9/00M15 A61K9/00M18 A61K9/00M20 A61K9/00M3

US: 424/401 424/401P 424/405 514/546 514/547 514/547S 514/549 514/552 514/557 514/557S 514/558 514/559 514/560 514/568 514/63 514/723 514/724 514/731 514/738 514/739 514/762 514/763

Family:

Publication number	Publication date	Application number	Application date
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EP1673062 B1	20140312	EP20040788624	20040908
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WO05023233 A3	20051222	WO2004US29237	20040908

Priority:

US20030659571 20030909	BR2004PI14220 20040908	CN200480033005 20040908
EP20040788624 20040908	US20040937059 20040908	EP20110158061 20040908
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US20130942122 20130715		

Probable Assignee: 3M CO

Assignee(s): (std): 3M INNOVATIVE PROPERTIES COMPANY ; ANDREWS JEFFREY F ; CAPECCHI JOHN T ; SCHOLZ MATTHEW T ; GIBBS DIANNE L ; 3M CO ; 3M INNOVATIVE PROPERTIES CO

Assignee(s): 3M INNOVATIVE PROPERTIES CO ST PAUL

Inventor(s): (std): ANDREWS JEFFREY F ; CAPECCHI JOHN T ; DIANNE L GIBBS ; JEFFREY F ANDREWS ; JOHN T CAPECCHI ; MATTHEW T SCHOLZ ; GIBBS DIANNE L ; SCHOLZ MATTHEW T ; SCHOLZ MATTHEW T GIBBS DIANNE ; SCHOLZ MATTHEW THOMAS ; GIBBS DIANNE LOUISE ; CAPECCHI JOHN THOMAS ; ANDREWS JEFFREY FALLIN

Inventor(s): SCHOLZ MATTHEW T GIBBS DIANNE L CAPECCHI JOHN T AN ; SCHOLZ MATTHEW T SAINT PAUL ; THE DESIGNATION OF THE INVENTOR HAS NOT YET... ; ANDREWS JEFFREY ; SCHOLZ MATTHEW T 3M CENTER ; GIBBS DIANNE L 3M CENTER ; GIBBS DIANNE L SAINT PAUL ; SCHOLZ MATTHEW ; GIBBS DIANNE ; CAPECCHI JOHN T 3M CENTER ; CAPECCHI JOHN T SAINT PAUL ; ANDREWS JEFFREY F 3M CENTER ; ANDREWS JEFFREY F SAINT PAUL ; CAPECCHI JOHN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; VOSSIUS AND PARTNER; VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; 3M INNOVATIVE PROPERTIES CO; 3M INNOVATIVE PROPERTIES COMPANY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

246) Family number: 15392723 (WO0145533A2)

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Title: CLEANING DEVICE AND METHOD OF USE

Abstract: A cleaning device for cleaning toilets, bathroom fixtures, and other surfaces. The device encloses a reservoir contained in a hollow handle for storing a cleaning solution, with a cap connected to one end of the handle and a base connected to the other end of the handle. A brush, sponge or other scrubber or cleaning surface is preferably attached to the base. A manually operated flow control mechanism opens a valve which seals at least one exit or dispensing orifice at or near the base of the reservoir, and thereby allows volume of cleaning solution to be dispensed at a reasonably fast, controlled rate of flow. In one embodiment, manually operated vacuum pressure release orifices are located at the opposite end of the reservoir from the exit orifice and are normally closed, but may be opened to minimize or eliminate any vacuum (subatmospheric pressure) in the reservoir, thereby aiding the flow of liquid from the reservoir through the exit orifice.

Classifications:

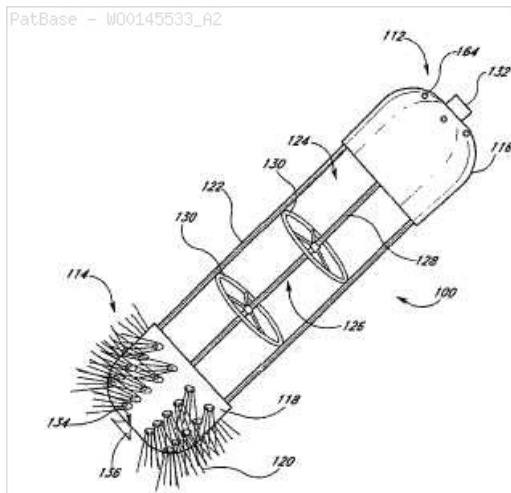
International (IPC 8-9): A46B11/00 (Advanced/Invention);

A46B11/00 (Core/Invention)

International (IPC 1-7): A46B11/00

CPC: A46B11/001 A47K11/10

European: A46B11/00C A47K11/10

**Family:**

Publication number	Publication date	Application number	Application date
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AU200124517 A5	20010703	AU20010024517D	20001220
EP1241961 A2	20020925	EP20000988294	20001220
WO0145533 A2	20010628	WO2000US35034	20001220
WO0145533 A3	20011227	WO2000US35034	20001220

Priority:

US19990172620P 19991220 WO2000US35034 20001220

Probable Assignee: BRUMLIK JOHN FRANCOIS

Assignee(s): (std): BRUMLIK JOHN FRANCOIS

Assignee(s): JOHN FRANCOIS BRUMLIK

Inventor(s): (std): BRUMLIK JOHN FRANCOIS

Inventor(s): JOHN FRANCOIS BRUMLIK

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

247) Family number: 1095724 (US3652174A)

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Title: HERMETICALLY-SEALED PRODUCTS AND RELATED METHOD FOR CLEANSING AND OTHER USES

Abstract: Products including hermetically sealed, openable, containers enclosing liquid, liquid impregnated, dry and other materials for use alone or in combination with associated or integral components such as sheetlike materials for cleaning, medical or other purposes, together with dispensing components therefor and related method.

Classifications:

International (IPC 8-9): A47K10/16 A47K10/32 A47K10/40

A47K10/42 A47K5/04 B65D83/14 B65D83/16

B65H35/00 (Advanced/Invention);

A47K10/00 A47K10/24 A47K5/00 B65D83/14 B65D83/16

B65H35/00 (Core/Invention)

International (IPC 1-7): A47K10/32 B05C11/06 B05C11/02

B05C11/12 B05C5/00 B43K5/14 B65D5/72 B65D85/00 B65H19/06

B65H35/00 D06B1/12

CPC: A47K2010/328 B65D83/20 B65D83/384 B65H35/0046

A47K5/04 A47K10/40 A47K10/16 Y10S242/905 A47K10/421

A47K10/32 A47K2010/3266

European: A47K10/16 A47K10/32 A47K10/40 A47K10/42B

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K47K10/32W1A

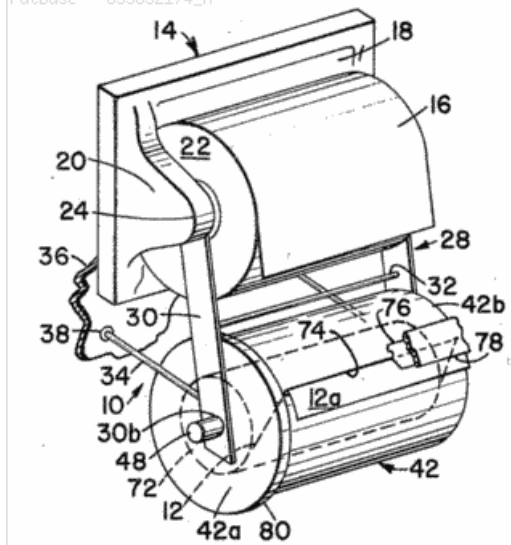
US: 118/200 118/234 118/242 118/264 118/325 118/37 118/41

118/415 118/506 118/7.5 118/75 206/225 206/499 211/119 221/69

222/490 242/55.3 242/560 242/594.5 242/595 242/598.5 242/905

248/317 312/42 396/604 401/132 401/143

PatBase - US3652174_A

**Family:**

Publication number	Publication date	Application number	Application date
US3652174 A	19720328	US19680715768	19680325
US3707945 A	19730102	US19700048916	19700618
US3744448 A	19730710	US19720238578	19720327
US3796185 A	19740312	US19720236072	19720320
US3824953 A	19740723	US19730356143	19730501
US3830198 A	19740820	US19730334309	19730221

Priority:

US19670678600 19671027 US19680715768 19680325 US19700048916 19700618
 US19720236072 19720320 US19720238578 19720327 US19720257745 19720530
 US19720678600 19721027 US19730334309 19730221 US19730356143 19730501
 US19730428225 19731226

Probable Assignee:

HYGIENE SYSTEMS INC

Assignee(s): (std):

BOONE P ; PHILIP BOONE

Assignee(s):

BOONE P US ; HYGIENE SYSTEMS INC

Inventor(s): (std):

BOONE P ; BOONE PHILIP

Inventor(s):

PHILIP BOONE ; BOONE P US

248) Family number: 28926736 (US2003150936A)

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Title: SPRAY CADDY AND METHOD OF DISPENSING CHEMICALS

Abstract: A spray caddy (10) for storing and transporting chemicals and cleaning accessories and method of dispensing diluted liquid chemicals with improved efficiency. The spray caddy (10) comprises a container (11) and an elongate rigid tubular handle assembly (12) that extends through a first hole (32) and a second hole (34) in container (11). Hot (>180 degree, F.), pressurized water is received from a van or trailer mounted professional cleaning machine and enters the spray caddy (10) at a first end (38) of the tubular handle assembly (12) then proceeds through an integral venturi injector (58) which siphons a precisely predetermined amount of liquid concentrate from one of a plurality of predetermined liquid concentrate supply jars (76) housed safely within the interior (28) of container (11) and mixes the concentrate with the water passing through the handle assembly (12) forming a solution of precise dilution that exits a second end (70) of handle assembly (12) and is dispensed through a delivery hose (16) to a target surface (116) of the cleaning site (14). A spray caddy (10) containing sufficient variety and capacity of chemicals to complete an entire days' worth of cleaning is transported in one trip from the work vehicle to the cleaning site (14). Chemicals are applied in efficient alternating sequence in accordance with proper cleaning procedures as set forth by carpet mills and acknowledged experts in the field of carpet and upholstery cleaning. A spray caddy (10) is provided in a completely assembled form or in a kit form comprising an assemblage of any or all of its component parts.

Classifications:

International (ipc 8-9): B08B3/02 C11D3/00 (Advanced/Invention);
 B01F13/00 B01F5/04 (Advanced/Non-invention);

B08B3/02 C11D3/00 (Core/Invention);

B01F13/00 B01F5/04 (Core/Non-invention)

International (ipc 1-7): A62C13/62 D06B1/02

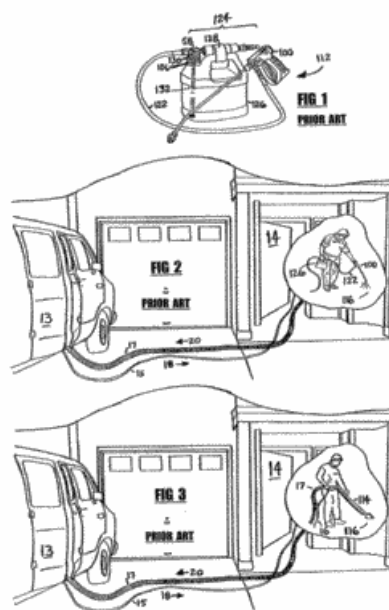
CPC: B01F5/0413 B01F13/002 B01F13/0033 B08B3/026 C11D3/0031

European: B01F13/00K2H B08B3/02H C11D3/00B6 L01F13/00K2B
 L01F5/04C12

US: 134/100.1 134/103.1 134/95.3 15/321 239/307 239/307P
 68/205R 68/5A 8/148 8/158

PatBase - US2003150936_AA

Patent Application Publication Aug. 14, 2003 Sheet 1 of 3 US 2003/0150936 A1

**Family:**

Publication number	Publication date	Application number	Application date
US2003150936 AA	20030814	US20010032437	20011231
US6880191 BB	20050419	US20010032437	20011231

Priority:

US20010032437 20011231

Probable Assignee: WANDER S INC

Assignee(s): BRISTOR JOE G ; WANDER S INC ; WANDER'S INC ; WANDER'S INC

Inventor(s): (std): BRISTOR JOE G

249) Family number: 70852737 (US2018236741A)

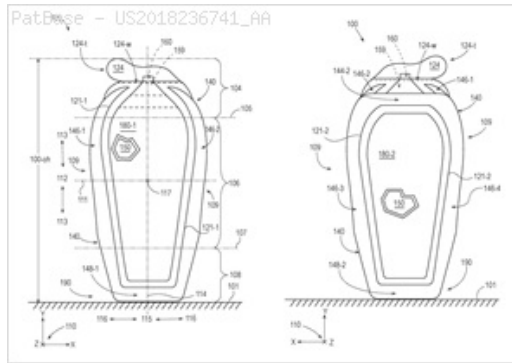
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Title: METHODS OF MAKING VENTED FLEXIBLE CONTAINERS

Abstract: Methods of making vents in containers made from flexible materials, including forming vent openings in a first flexible material, forming vent stand-offs on a second flexible material, and combining the flexible materials to form a vent passage for the flexible container.

Classifications:

International (IPC 8-9): B31B70/14 B31B70/16 B31B70/26 B31B70/60 B31B70/855 B65D33/01 B65D35/10 B65D75/00 (Advanced/Invention)
CPC: B31B70/16 B65D75/008 B65D35/10 B31B2155/002 B31B70/148 B31B70/60 B31B70/146 B31B70/266 B31B70/64 B31B70/855 B31B70/88 B31B2155/0014 B31B2160/20 B31B2160/30 B31B2170/20 B65D33/01 B65D2205/00

**Family:**

Publication number	Publication date	Application number	Application date
US2018236741 AA	20180823	US20180881808	20180129
WO18156308 A1	20180830	WO2018US15635	20180129

Priority:

US20170461290P 20170221 US20180881808 20180129

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): BOURGEOIS MARC ; BOURGEOIS MARC RICHARD ; BROAD GAVIN ; BROAD GAVIN JOHN ; CLARE BENJAMIN ; CLARE BENJAMIN JACOB ; GIACHETTO RICHARD ; GIACHETTO RICHARD MATTHEW ; HARGETT MARK ; HARGETT MARK MASON ; HAUSFELD MICHAEL ; HAUSFELD MICHAEL PAUL ; ISHIHARA TADAYOSHI ; LESTER JOSEPH ; LESTER JOSEPH CRAIG

Agent(s): KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

250) Family number: 30115741 (US2001009404A)

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Title: RADAR DEVICES FOR LOW POWER APPLICATIONS AND BATHROOM FIXTURES

Abstract: A fluid flow device includes an actuator, an RF transmitter, a gated RF receiver, and a processor. The RF transmitter is configured and arranged to produce a plurality of pulses of RF energy spaced apart in time to form a sensor field. The gated RF receiver is configured and arranged to receive RF energy reflected by objects within the sensor field. The processor is coupled to the gated RF receiver for evaluating the reflected RF energy. The processor is also coupled to the actuator and is configured and arranged to activate the actuator in response to the reflected RF energy to control fluid flow. In addition, a new low power radar sensor operates by providing radar pulses that are non-uniformly spaced in time. In operation, a burst of pulses is initiated in the transmitter. Between each burst is a period of rest time in which the transmitter is not transmitting RF energy.

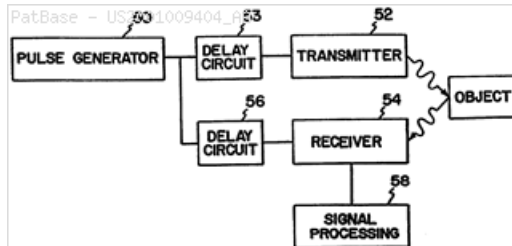
Classifications:

International (IPC 8-9): E03C1/05 E03D5/10 G01S13/02 G01S13/04 G01S13/18 G01S13/22 G01S13/56 G01S13/88 G01S7/03 (Advanced/Invention); G01S13/04 G01S13/56 (Advanced/Non-invention); E03C1/05 E03D5/00 G01S13/00 G01S7/03 (Core/Invention)
International (IPC 1-7): E03C1/05 E03C1/242 E03C12/42 E03D5/10 F16K31/02 G01S13/00 G01S13/02 G01S13/04 G01S13/18 G01S13/22 G01S7/40 G08B21/00

CPC: E03D5/10 G01S7/41 G01S17/026 G01S2007/4065 Y10T137/0324 G01S13/18 E03C1/057 E03D5/105 G01S7/03 G01S13/0209 G01S13/04 G01S13/22 G01S13/56 G01S13/88

European: E03C1/05D2 E03D5/10 E03D5/10B G01S13/02B G01S13/18 G01S13/22 G01S13/88 G01S17/02D G01S7/03 G01S7/41 S01S13/04 S01S13/56 S01S13/88

US: 137/2 251/129.04 251/129.040P 340/565 340/567 342/114 342/204 342/27 342/27S 342/28 342/28P 4/304 4/305 4/313 4/406 4/623

**Family:**

Publication number	Publication date	Application number	Application date
AU199884043 A1	19990210	AU19980084043	19980717
AU199884116 A1	19990210	AU19980084116	19980717
AU199885002 A1	19990210	AU19980085002	19980717
AU199885722 A1	19990210	AU19980085722	19980717
CN1230691 C	20051207	CN19988008741	19980717
CN1269016 A	20001004	CN19988008741	19980717
DE69809748 D1	20030109	DE19986009748	19980717
DE69809748 D1	20030109	DE19986009748T	19980717
DE69809748 T2	20030911	DE19986009748T	19980717
EP0995127 A1	20000426	EP19980934633	19980717
EP0995127 B1	20021127	EP19980934633	19980717
ES2190597 T3	20030801	ES19980934633T	19980717
JP2001510900 T2	20010807	JP20000503443T	19980717
US2001009404 AA	20010726	US20010817592	20010326
US2002171056 AA	20021121	US20020090970	20020304
US6067673 A	20000530	US19980118255	19980717

US6206340 BA	20010327	US19980118050	19980717
US6250601 BA	20010626	US19980118461	19980717
US6388609 BB	20020514	US20010817592	20010326
US6568655 BB	20030527	US20020090970	20020304
WO9904283 A1	19990128	WO1998US14599	19980717
WO9904284 A1	19990128	WO1998US14749	19980717
WO9904285 A1	19990128	WO1998US14877	19980717
WO9904286 A1	19990128	WO1998US14981	19980717

Priority:

US19970052960P	19970718	US19970052963P	19970718	US19970053168P	19970718
US19970053245P	19970718	WO1998US14749	19980717	WO1998US14599	19980717
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US19980118050	19980717	WO1998US14981	19980717	US20010817592	20010326
US20020090970	20020304				

Probable Assignee: D2M INC

Assignee(s): (std): KOHLER COMPANY ; KOLAR ANTON J ; PAESE ANDREW J ; RICHTER O CONNELL DAVID J ; TERVO STEVEN M ; THOMAS CARTER J ; SHAFER DAVID C ; BURNETT WILLIAM R ; HEINZMANN FRED JUDSON ; KOHLER CO

Assignee(s): KOHLER CO KOHLER ; D2M INC

Inventor(s): (std): ANDREW J PAESE ; ANTON J KOLAR ; BURNETT R ; BURNETT WILLIAM R ; CARTER J THOMAS ; DAVID C SHAFER ; DAVID J RICHTER O CONNELL ; FRED JUDSON HEINZMANN ; HEINZMANN FRED JUDSON ; HEINZMANN JUDSON ; KOLAR ANTON J ; PAESE ANDREW J ; PAESE J ; RICHTER O CONNELL DAVID J ; SHAFER C ; SHAFER DAVID C ; STEVEN M TERVO ; TERVO M ; TERVO STEVEN M ; THOMAS CARTER J ; THOMAS J ; WILLIAM R BURNETT ; THOMAS ANDREW J PAESE STEVEN M

Inventor(s): ANDREW J PAESE STEVEN M TERVO CARTER J THOMAS

Agent(s): TSURUTA JUNICHI; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

251) Family number: 30139743 (US5544647A)

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Title: METERED DOSE INHALATOR

Abstract: A metered dose inhaler is described having an improved electronic counting means to indicate the doses remaining in the aerosol canister component of the inhaler assembly.

Classifications:

International (ipc 8-9): A61M11/00 A61M15/00 B05B11/00

B05B9/04 B65D25/00 (Advanced/Invention);

A61M11/00 B05B9/04 (Advanced/Non-invention);

A61M11/00 A61M15/00 B05B11/00 (Core/Invention);

A61M11/00 (Core/Non-invention)

International (ipc 1-7): A61J1/22 A61J7/00 A61J7/04 A61M1/00

A61M11/00 A61M15/00 A62B7/00 B05B11/00 B05B9/04 B65D25/00

B66D26/00 B67D5/08 G01F13/00 G01F15/06 G06F15/00 G06F19/00

G06M3/02

CPC: A61M15/008 B05B11/308 A61M15/009 A61M15/0091

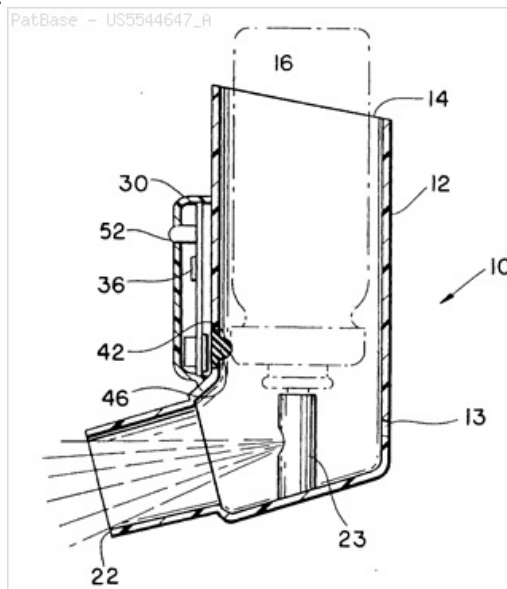
A61M2202/064 A61M2205/3306 B05B11/3028 B05B11/3073

A61M15/0093

European: A61M15/00P B05B11/30H9 K61M15/00D4E K61M15/00T

K61M202/06B K61M205/33D K61M205/33M1 L05B11/30E

US: 128/200.14 128/200.19 128/200.23 128/203.12 128/203.23



Family:

Publication number	Publication date	Application number	Application date
AT211399 E	20020115	AT19950940697T	19951114
AT238822 E	20030515	AT19960308361T	19961119
AU199642360 A1	19960619	AU19960042360	19951114
AU199671745 A1	19970529	AU19960071745	19961113
AU687290 B2	19980219	AU19960042360	19951114
AU730788 B2	20010315	AU19960071745	19961113
CA2181789 AA	19960722	CA19952181789	19951114
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CA2190204 AA	19970523	CA19962190204	19961113
CA2190204 C	20050426	CA19962190204	19961113
DE69524865 D1	20020207	DE19956024865	19951114
DE69524865 T2	20020829	DE19956024865T	19951114
DE69627786 D1	20030605	DE19966027786	19961119
DE69627786 T2	20040325	DE19966027786T	19961119
DK0775499 T3	20030825	DK19960308361T	19961119
EP0746366 A1	19961211	EP19950940697	19951114
EP0746366 A4	19971112	EP19950940697	19951114

EP0746366 B1	20020102	EP19950940697	19951114
EP0775499 A2	19970528	EP19960308361	19961119
EP0775499 A3	19970924	EP19960308361	19961119
EP0775499 B1	20030502	EP19960308361	19961119
ES2170814 T3	20020816	ES19950940697T	19951114
ES2199275 T3	20040216	ES19960308361T	19961119
JP09508845 T2	19970909	JP19960518828T	19951114
JP3307946 B2	20020729	JP19960518828T	19951114
JP3583569 B2	20041104	JP19960310829	19961121
JP9168593 A2	19970630	JP19960310829	19961121
JP9508845 T2	19970909	JP19960518828T	19951114
MY119114 A	20050331	MY19960004858	19961121
NO315310 B1	20030818	NO19960004943	19961121
NO316356 B1	20040119	NO19960003134	19960726
NO963134 A	19960828	NO19960003134	19960726
NO963134 A0	19960726	NO19960003134	19960726
NO964943 A	19970523	NO19960004943	19961121
NO964943 A0	19961121	NO19960004943	19961121
NZ297246 A	19970922	NZ19950297246	19951114
NZ299619 A	19971124	NZ19960299619	19961022
PT775499 T	20031031	PT19960308361T	19961119
TW294599 B	19970101	TW19950112704	19951215
US5544647 A	19960813	US19940346524	19941129
US5622163 A	19970422	US19950562293	19951122
WO9616686 A1	19960606	WO1995US14759	19951114
ZA9510129 A	19960606	ZA19950010129	19951129

Priority:

US19940346524 19941129 WO1995US14759 19951114 US19950562293 19951122
CA19962190204 19961113

Probable Assignee: KOS LIFE SCIENCES INC

Assignee(s): (std): IEP GROUP INC ; IEP PHARMACEUTICAL DEVICES INC ; INEP GROUP INC ; KOS LIFE SCIENCES INC

Assignee(s): JEWETT WARREN R ; IEP GROUP INCUS ; EBELING FREDERICK A ; I II P GROUP INC

Inventor(s): (std): EBELING FREDERICK A ; EBELING FREDREICK A ; EBLING FEDERICK A ; FEDERICK A EBLING ;
FREDERICK A EBELING ; FUREDERITSUKU EI EBERINGU ; JEWETT WARREN ; JEWETT WARREN R ;
WARREN JEWETT ; WARREN R JEWETT ; JEWETT R ; EBELING A

Inventor(s): UOOREN AARU JIYUQUETO

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OGILVY RENAULT LLP SENCRL SRL

Designated states: AT AU BE CA CH CN DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL NO NZ PT RU SE

252) Family number: 2585743 (EP0442857A1)

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Title: FLUID CONTAINER.

Abstract: The invention concerns a fluid container comprising a collapsible fluid chamber (21) for holding the fluid including at least one flexible portion (24) and an opening (25) sealingly connected to a dispensing device (26) capable of creating a negative pressure for sucking the fluid from the fluid chamber (21) in order to dispense it during simultaneous collapsing of said fluid chamber (21).

Classifications:

International (ipc 8-9): A47K5/00 A47K5/12 B65D35/00

B65D83/76 (Advanced/Invention);

A47K5/00 B65D35/00 B65D83/76 (Advanced/Non-invention);

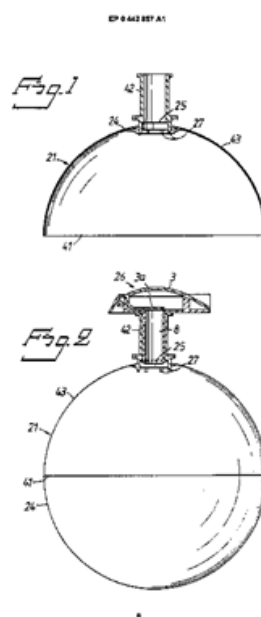
A47K5/00 B65D35/00 B65D83/76 (Core/Invention)

International (ipc 1-7): A45D34/00 A47K5/00 A47K5/12 A47K5/122
B65D35/00 B65D35/28 B65D47/34 B65D73/00 B65D8/00 B65D83/14
B65D83/76 B65D85/72 B65D88/58

CPC: B05B11/007 B05B11/0072 B05B11/3033 A47K5/12
B05B11/3032 B05B11/00412

European: A47K5/12

PatBase - EP0442857_A1



Family:

Publication number	Publication date	Application number	Application date
AU199170934 A1	19910905	AU19910070934	19910211

AU627645 B2	19920827	AU19910070934	19910211
BRPI9100606 A	19911029	BR1991PI00606	19910215
CA2036111 AA	19910817	CA19912036111	19910211
CS9100354 A3	19920415	CS19910000354	19910213
EP0442857 A1	19910821	EP19910850023	19910204
FI910701 A	19910817	FI19910000701	19910213
FI910701 A0	19910213	FI19910000701	19910213
HU60201 A2	19920828	HU19910000476	19910213
HU9100476 A0	19910828	HU19910000476	19910213
JP7076384 A2	19950320	JP19910042389	19910215
KR19910015481 A	19910930	KR19910002263	19910211
NO910527 A	19910819	NO19910000527	19910211
NO910527 A0	19910211	NO19910000527	19910211
PL289079 A1	19920224	PL19910289079	19910215
PT96786 A	19930226	PT19910096786	19910215
RU1836263 C	19930823	SU19914894830	19910215
SE9000567 A0	19900216	SE19900000567	19900216
SU1836263 A3	19930823	SU19914894830	19910215
ZA9101100 A	19911127	ZA19910001100	19910214

Priority:

SE19900000567 19900216 CA19912036111 19910211

Probable Assignee: STERISOL AB

Assignee(s): (std): STERISOL A B ; STERISOL AB ; SUTERISORU AB

Assignee(s): NILSSON BILLY ; STERISOL AB SE ; STERISOL AKTIEBOLAG

Inventor(s): (std): BILLI NILSSON ; BILLY NILSSON ; BIRII NIRUSON ; NILSSON B ; NILSSON BILLY

Inventor(s): B NILSSON ; NILSSON BILLY SE

Agent(s): GRIFFITH HACK; SWABEY OGILVY RENAULT

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

253) Family number: 11461757 (US5288512A)

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Title: REDUCED CALORIE FATS MADE FROM TRIGLYCERIDES CONTAINING MEDIUM AND LONG CHAIN FATTY ACIDS

Abstract: A reduced calorie fat comprising at least about 15 percent by weight triglycerides selected from the group consisting of MML, MLM, LLM, and LML triglycerides, and mixtures thereof; wherein M=fatty acids selected from the group consisting of C6 to C10 saturated fatty acids, and mixtures thereof, and L=fatty acids selected from the group consisting of C17 to C26 saturated fatty acids, and mixtures thereof is disclosed. The fat also has the following fatty acid composition: (a) from about 15 percent to about 70 percent C6 to C10 saturated fatty acids; (b) from about 10 percent to about 70 percent C17 to C26 saturated fatty acids; (c) not more than about 10 percent fatty acids selected from the group consisting of C12:0 and C14:0, and mixtures thereof; (d) not more than about 20 percent fatty acids selected from the group consisting of C18:1, C18:2, C18:3, and mixtures thereof; and (e) not more than 4 percent C18:2 fatty acids.

Classifications:

International (ipc 8-9): A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G1/38 A23G1/56 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23L1/30 A23L1/307 C11B7/00 C11C3/00 C11C3/10 (Advanced/Invention);

A23D7/015 A23D9/007 A23G1/30 A23G9/32 A23G9/44 C11B7/00 C11C3/00 (Advanced/Non-invention);

A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23L1/30 C11B7/00 C11C3/00 (Core/Invention)

International (ipc 1-7): A23D3/00 A23D3/02 A23D5/00 A23D5/02 A23D7/00 A23D7/015 A23D7/02 A23D9/00 A23D9/007 A23D9/02 A23G1/00 A23G3/00 A23G9/02 A23L1/307 C11B7/00 C11C3/00 C11C3/10

CPC: Y10S426/804 A23L33/12 A23G1/56 A23D7/00 A23D9/00 A23G1/38 A23G3/346 A23G9/52 A23G2200/08 C11C3/10

European: A23D7/00 A23D9/00 A23G1/00K A23G1/00K+D8 A23G1/38 A23G1/56 A23G3/00K A23G3/00K+D8 A23G3/34E A23G9/02K A23G9/02K+D8 A23G9/52 A23L1/30C2 C11C3/10 K23G200/08

US: 426/549 426/607 426/660 426/804



Family:

Publication number	Publication date	Application number	Application date
AT89453 E	19930615	AT19880202854T	19881213
AU198826870 A1	19890615	AU19880026870	19881214
AU629800 B2	19921015	AU19880026870	19881214
CA1339929 A1	19980630	CA19880585810	19881213
DE3881184 D1	19930624	DE19883881184	19881213
DE3881184 T2	19930902	DE19883881184T	19881213
EP0322027 A2	19890628	EP19880202854	19881213

EP0322027 A3	19901024	EP19880202854	19881213
EP0322027 B1	19930519	EP19880202854	19881213
GR3007915 T3	19930831	GR19930403186T	19930520
HK95096 A	19960607	HK19960000950	19960530
IE61409 B	19941102	IE19880003732	19881214
IE883732 L	19890615	IE19880003732	19881214
JP2001799 A2	19900108	JP19880317585	19881215
JP2962730 B2	19991012	JP19880317585	19881215
NZ227324 A	19910326	NZ19880227324	19881214
PH26555 A	19920819	PH19880037914	19881213
US5288512 A	19940222	US19920989484	19921204

Priority:

US19870132400 19871215 CA19880585810 19881213 EP19880202854 19881213
US19890329620 19890328 US19920989484 19921204

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; BRUCE PETER

Assignee(s): PETER BRUCE ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO THE ; PROCTER AND GAMBLE COMPANY THE ; PUROKUTAA ANDO GYANBURU CO ZA ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; SEIDEN PAUL

Inventor(s): (std): POORU SEIDEN ; SEIDEN PAUL ; SEIDEN PUAL

Inventor(s): SEIDEN PAUL CINCINNATI OHIO 45208 US ; PUAL SEIDEN ; HOORU SEIDEN ; PAUL SEIDEN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY

Designated states: AT BE CH DE FR GB GR IT LI LU NL SE

254) Family number: 49611764 (US2012237377A)

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Title: PUMP DEVICE FOR A CONTAINER FOR LIQUID, PASTY OR FOAMABLE CLEANSING AND SKIN CARE PREPARATIONS

Abstract: The subject matter of the invention is a pump device for a container for liquid, pasty or foamable skin care preparations, e.g. for liquid soaps, disinfectants, skin protection pastes or creams, wherein the pump device comprises a conically tapering bellows, wherein the bellows exhibits several bellows elements each having a different diameter, wherein at least one smaller bellows element can be pushed into an adjacent larger bellows element.

Classifications:

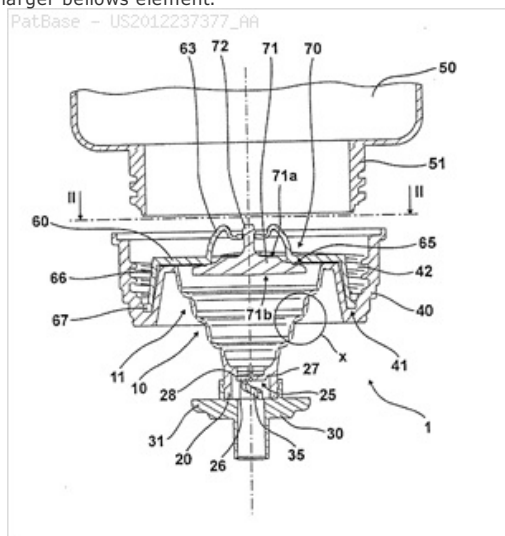
International (IPC 8-9): A47K5/12 B05B11/00 B65D47/34

B65D83/00 F04B43/00 (Advanced/Invention)

CPC: B05B11/3035 A47K5/1208

European: A47K5/12C2

US: 417/473



Family:

Publication number	Publication date	Application number	Application date
DE102011014169 A1	20120920	DE201110014169	20110316
DE202011100895 U1	20110922	DE201120100895U	20110519
DE202011105790 U1	20120126	DE201120105790U	20110916
EP2499950 A2	20120919	EP20120001272	20120228
EP2499950 A3	20170628	EP20120001272	20120228
EP2499950 B1	20181226	EP20120001272	20120228
RU2012109958 A	20130920	RU20120109958	20120315
RU2503395 C2	20140110	RU20120109958	20120315
TR201901303 T4	20190221	TR20190001303T	20120228
US2012237377 AA	20120920	US20120419756	20120314

Priority:

DE201110014169 20110316 DE201120100895U 20110519 DE201120105790U 20110916
EP20120001272 20120228

Probable Assignee: HUBNER GMBH

Assignee(s): (std): GRIMM RALF ; HUEBNER GMBH ; HUEBNER GMBH AND CO KG ; KHJUBNER GMBKH ; RICHARDT MARIO

Assignee(s): HUEBNER GMBH CO KG ; HUBNER GMBH

Inventor(s): (std): MARIO RICHARDT ; RALF GRIMM ; RICHARDT MARIO ; GRIMM RALF

Agent(s): WALTHER WALTHER AND HINZ GBR; PATENTANWALTE WALTHER HINZ BAYER PARTGMBB; UELKER GUELEK

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO

255) Family number: 55113771 (US2013292287A)

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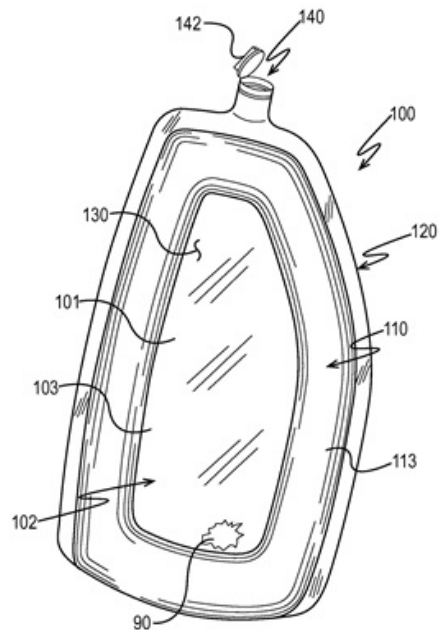
Title: FLEXIBLE CONTAINERS HAVING A DECORATION PANEL**Abstract:** Non-durable self-supporting flexible containers having a decoration panel.**Classifications:**

International (IPC 8-9): B05B9/04 B32B B32B1/02 B32B27/00 B32B27/08 B32B27/12 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B33/00 B32B7/02 B32B7/04 B32B7/12 B65B1/02 B65B3/02 B65B3/04 B65B43/08 B65D B65D1/02 B65D1/32 B65D1/42 B65D21/02 B65D25/14 B65D27/00 B65D30/00 B65D30/02 B65D30/10 B65D30/16 B65D30/22 B65D30/28 B65D33/00 B65D33/02 B65D33/04 B65D35/00 B65D35/02 B65D35/08 B65D35/10 B65D35/22 B65D37/00 B65D57/00 B65D6/14 B65D65/40 B65D75/00 B65D75/52 B65D75/54 B65D75/58 B65D81/32 B65D83/00 B65D85/00 (Advanced/Invention); B65D75/20 B65D75/56 B65D75/58 (Advanced/Non-invention)

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US: 1/1 206/459.5 215/12.1 220/645 222/107 222/206 222/94 383/107 428/212 428/476.1 428/483 428/516 53/452 53/456

PatBase - US2013292287_AA

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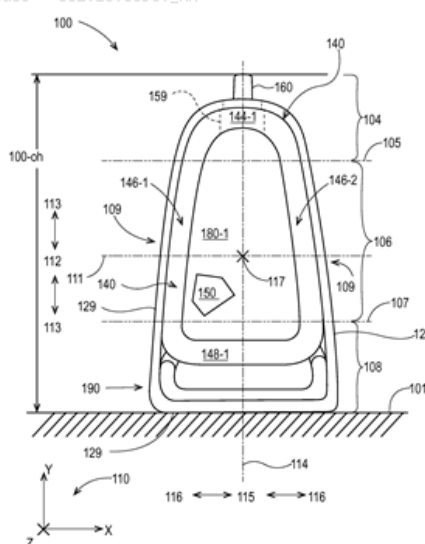
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Probable Assignee: PROCTER AND GAMBLE CO**Assignee(s):** (std): DZE PROKTER END GEMBL KOMPANI ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE**Assignee(s):** MCGUIRE KENNETH STEPHEN ; STANLEY SCOTT KENDYL ; PROCTER AND GAMBLE COONE PROCTER & GAMBLE PLAZACINCINNATIOH45202US ; PT PERTAMINA PERSERO ; UNIVERSITAS KATOLIK WIDYA MANDALA SURABAYA ; PROCTER AND GAMBLE CO CINCINNATI ; YOU JUN ; ARENT LEE MATHEW ; BERG CHARLES JOHN JR ; BOSWELL EMILY CHARLOTTE**Inventor(s):** (std): ARENT LEE MATTHEW ; BERG CHARLES ; BERG CHARLES JOHN ; BERG CHARLES JOHN JR ; ARENT LEE MATHEW ; BERG JR CHARLES JOHN ; CHARLES JOHN BERG ; CHARLES JOHN BERG JR ; CHARLES JOHN JR BERG ; CHARLOTTE BOSWELL EMILY ; EMILY CHARLOTTE BOSWELL ; EMILY CHARLOTTE BOSWELL ; J YOU ; JOHN BERG CHARLES JR ; JOHN BERG JR CHARLES ; JUN YOU ; KENDYL STANLEY SCOTT ; KENNETH STEPHEN MCGUIRE ; KENNETH STEPHEN MCGUIRE ; LEE MATHEW ARENT ; LEE MATTHEW ARENT ; MATHEW ARENT LEE ; MATTHEW ARENT LEE ; MCGUIRE KENNETH ; MCGUIRE KENNETH STEPHEN ; SCOTT KENDYL STANLEY ; STANLEY SCOTT ; STANLEY SCOTT KENDYL ; BOSWELL EMILY CHARLOTTE ; STEPHEN MCGUIRE KENNETH ; YOUJUN ; YU TSZYUN ; STENLI SKOTT KENDYL ; STENLEJ SKOTT KENDIL ; RAPACH ANDREW PAUL ; MAKGVAJR KENNET STIVEN ; BOSVELL EMILI SHARLOTT ; BERG CHARLZ DZHON DZHR ; ARENT LI METYU ; YOU JUN**Inventor(s):** YOU JUNCN ; ARENT LEE ; YOU LUN ; SYAAFRULLAH HASIBUAN ; BOSWELL EMILY CHARLOTTEUS ; STANLEY SCOTT KENDYL CINCINNATI ; STANLEY SCOTT KENDYLUS ; MCGUIRE KENNETH STEPHEN CINCINNATI ; MCGUIRE KENNETH STEPHENUS ; MUCHTAR SANTOSO ; JOHN JR ; JR CHARLES JOHN BERG ; EKO SISWANTO ; BERG JR CHARLES JOHN CINCINNATI ; BOSWELL EMILY ; ARENT LEE MATHEWUS ; BERG CHARLES JOHN JR CINCINNATI ; BERG CHARLES JOHN JRUS ; BERG JR**Agent(s):** TORYS LLP ; PIERCE CHRISTOPHER JAMES ; ENGISCH GAUTIER ; HOYNG ROKH MONEGIER LLP ; DEL VALLE SONIA ; MAULITTA PRAMULASARI ; MAULITTA PRAMULASARI SPD ; TANI AND ABE PC ; CHARLES R ; JEFFREY V ; WEIRICH DAVID M ; WARE CHARLES R ; GUFFEY TIMOTHY B**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**256) Family number: 58447773** (US2015036950A)

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Title: FLEXIBLE CONTAINERS HAVING IMPROVED SEAM AND METHODS OF MAKING THE SAME**Abstract:** A non-durable flexible container can include a first film wall including a first portion comprising at least one first structural support member defined in the first film wall, and a second portion that is free of a structural support member. The container can further include a second film wall including at least one second structural support member defined in the second film wall, wherein at least a portion of the first structural support member is adjacent to at least a portion of the second structural support member to define a seam region, and a side of the seam region defines an edge of the non-durable flexible container. The container can also include a closed produce volume defined between first and second film walls; and a seam projecting outwardly from the seam region at an intersection of the first and second film walls.**Classifications:****International (IPC 8-9):** B05B11/00 B65D B65D30/16 B65D33/00 B65D6/34 B65D75/00 B65D81/05 B65D83/00 (Advanced/Invention)**CPC:** B65D83/0055 B65D75/008 B65D11/22 B05B11/00412**US:** 383/104

PatBase - US2015036950_AA

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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER GAMBLE CO

Assignee(s): ARENT LEE MATHEW ; BERG CHARLES JOHN JR ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN JACOB ; PROCTER AND GAMBLE CO ; LESTER JOSEPH CRAIG ; ISHIHARA TADAYOSHI ; MCGUIRE KENNETH STEPHEN ; GAMBLE CO ; PROCTER ; PROCTER AND GAMBLE CO CINCINNATI ; RAPACH ANDREW PAUL ; STANLEY SCOTT KENDYL

Inventor(s): (std): BENJAMIN JACOB CLARE ; BERG CHARLES JOHN ; BERG CHARLES JOHN JR ; BERG JR CHARLES JOHN ; ANDREW PAUL RAPACH ; ARENT LEE MATHEW ; BOURGEOIS MARC RICHARD ; JACOB CLARE BENJAMIN ; JOHN BERG JR CHARLES ; JOSEPH CRAIG LESTER ; KENDYL STANLEY SCOTT ; KENNETH STEPHEN MCGUIRE ; LEE MATHEW ARENT ; LESTER JOSEPH CRAIG ; CHARLES JOHN BERG JR ; CLARE BENJAMIN JACOB ; CRAIG LESTER JOSEPH ; ISHIHARA TADAYOSHI ; MARC RICHARD BOURGEOIS ; MATHEW ARENT LEE ; MCGUIRE KENNETH STEPHEN ; RICHARD BOURGEOIS MARC ; SCOTT KENDYL STANLEY ; STANLEY SCOTT KENDYL ; PAUL RAPACH ANDREW ; RAPACH ANDREW PAUL ; STEPHEN MCGUIRE KENNETH ; TADAYOSHI ISHIHARA

Inventor(s): RAPACH ANDREW PAUL CINCINNATI ; STANLEY SCOTT KENDYL CINCINNATI ; MCGUIRE KENNETH STEPHEN CINCINNATI ; ISHIHARA TADAYOSHI CINCINNATI ; CLARE BENJAMIN JACOB CINCINNATI ; LESTER JOSEPH CRAIG CINCINNATI ; BOURGEOIS MARC RICHARD CINCINNATI ; ARENT LEE MATHEW CINCINNATI ; BERG JR CHARLES JOHN CINCINNATI

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; ENGISCH GAUTIER; MAULITTA PRAMULASARI; TANI AND ABE PC; JEFFREY V; CHARLES R; GUFFEY TIMOTHY B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

257) Family number: 29373774 (ES2065860A)

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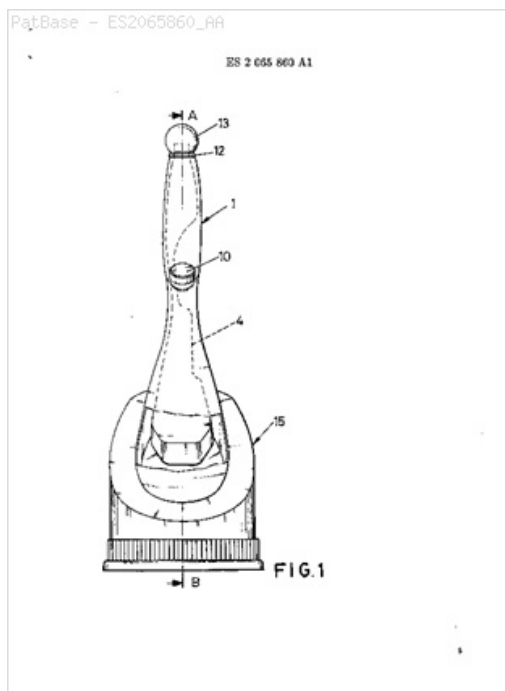
Title: Improved toilet brush

Abstract: The brush has two parts, one constituting the handle 1 with a reservoir 4 containing cleaning liquid and an end brush 14, and the other constituting a support 15 for the above assembly. The cleaning liquid can be sprayed through an outlet orifice 9 by manually actuating a push- button 10 that acts on a spray pump 5. The support 15 includes a replaceable air-freshener block located on a lower cover 19. The handle 1 is formed of two parts or pieces 2 and 3 fastened together by a transverse screw 11, in such a way that this structure allows the reservoir 4 and other accessories for spraying the cleaning liquid to be mounted inside.

Classifications:

International (IPC 8-9): A47K11/10 A61L9/12 (Advanced/Invention); A47K11/00 A61L9/12 (Core/Invention)

International (IPC 1-7): A47K11/10 A61L9/12



Family:

Publication number	Publication date	Application number	Application date
ES2065860 AA	19950216	ES19930002002	19930726
ES2065860 BA	19950901	ES19930002002	19930726

Priority:

ES19930002002 19930726

Probable Assignee: MAVAPLAST SL
Assignee(s): (std): MAVAPLAST SL
Assignee(s): MAVAPLAST S L
Inventor(s): (std): PINTO CABALLERO FERNANDO

258) Family number: 24012780 (US2003084505A)

© PatBase

Title: Automatic shower and bathtub cleaner

Abstract: An automatic shower and bathtub cleaning device, with no connection to the water supply piping, that directs cleaning fluid through nozzles that are positioned or adjusted to allow coverage of the entire inside surface of the shower or bathtub enclosure. The device consists of a main body, cleaning fluid reservoir, electric pump, nozzles, and a control circuit that allows either local or remote initiation of the device's cleaning cycle operation.

Classifications:

International (IPC 8-9): A47K3/00 A47K3/28 (Advanced/Invention);
A47K3/00 A47K3/28 (Core/Invention)

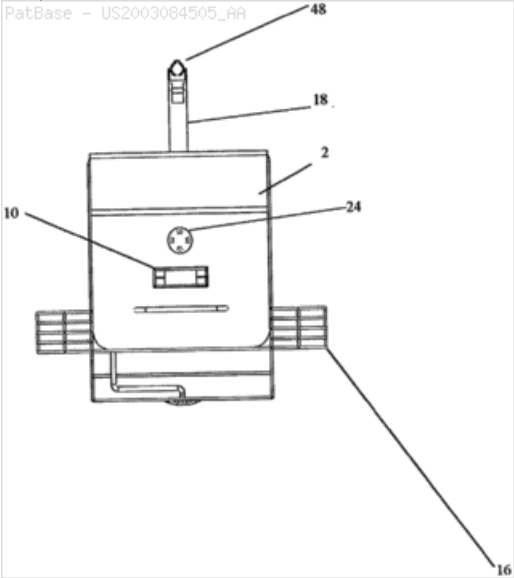
International (IPC 1-7): A47K3/00 E03D9/00

CPC: A47K3/001 A47K3/281

European: A47K3/00B A47K3/28B

US: 222/325 4/546 4/605 4/662

Locarno class: 46/62



Family:

Publication number	Publication date	Application number	Application date
US2003084505 AA	20030508	US20020255458	20020926
US6463600 BA	20021015	US20010848154	20010504
US6742199 BB	20040601	US20020255458	20020926

Priority:

US20010848154 20010504 US20020255458 20020926

Probable Assignee: SHOWER B CLEAN LLC

Assignee(s): (std): CONWAY DANIEL P ; KAISER JUDE NICHOLAS

Assignee(s): SHOWER B CLEAN LLC

Inventor(s): (std): CONWAY DANIEL P ; KAISER JUDE NICHOLAS

259) Family number: 62790783 (US2016183715A)

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Title: APPARATUS, SYSTEMS AND METHODS FOR DISPENSING DRINKS

Abstract: An apparatus for dispensing a first liquid comprising a second liquid, the apparatus comprising: a male coupling configured to enter and establish a friction seal with a female coupling of a container containing the second liquid by inserting the male coupling into the female coupling and applying a load to the male coupling, the load being provided by the weight of a portion of the apparatus; a spout; and a pump for causing the second liquid to exit the container and the first liquid to be dispensed via the spout after the friction seal is established between the female and male couplings.

Classifications:

International (IPC 8-9): A47J31/40 A47J31/44 A47J31/46 B01F15/00 B01F15/02 B01F3/04 B01F7/00 B01F7/18 B01F7/20 B65D25/00 B65D3/04 B65D33/00 B65D35/14 B65D35/20 B65D35/24 B65D35/28 B65D77/06 B67D1/00 B67D1/04 B67D1/08 B67D1/10 F16L21/00 F16L21/08 (Advanced/Invention);

B67D1/10 B67D1/12 (Advanced/Non-invention)

CPC: B67D1/0004 B67D1/0406 B67D1/0462 B67D1/06

B67D2001/0812 B67D1/0862 B01F2215/007 B01F2215/0022

B01F15/00538 B67D1/0043 A47J31/46 B01F7/0025 A47J31/407

B67D1/0864 B01F2215/0068 B67D1/0888 B67D1/0871 B65D35/14

B65D35/20 B65D35/24 B65D35/242 B65D35/28 B67D1/0418

B67D1/0804 B67D2001/0827 B01F15/00837 B01F3/04794 B01F7/20

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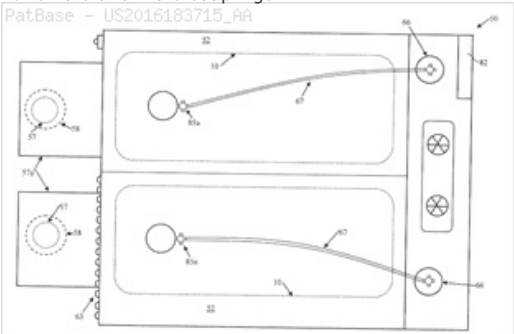
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B67D2001/0097 B67D2001/0098 B67D2001/0811 B67D2001/0821 B67D2001/0828 B65D77/06 B65D65/466 B65D2203/10

B67D1/00

US: 222/95 285/119 285/399 29/428 366/314 99/285 99/287 99/295 99/302P



Family:

Publication number	Publication date	Application number	Application date
US2016183715 AA	20160630	US20140586782	20141230
US2016185586 AA	20160630	US20140586741	20141230
US2017362071 AA	20171221	US20170607395	20170526
US2018257920 AA	20180913	US20180975700	20180509
US9994437 BB	20180612	US20170607395	20170526
US10040042 BB	20180807	US20140586741	20141230
WO16109018 A1	20160707	WO2015US59759	20151109
WO16109019 A1	20160707	WO2015US59777	20151109
WO18218258 A2	20181129	WO2018US43569	20180724
WO18218258 A3	20190221	WO2018US43569	20180724

Priority:

US20140586741 20141230 US20140586782 20141230 US20170607395 20170526
US20180975700 20180509

Probable Assignee: EDWARD SHOWALTER

Assignee(s): (std): EDWARD SHOWALTER ; SHOWALTER EDWARD

Inventor(s): (std): EDWARD SHOWALTER ; SHOWALTER EDWARD

Agent(s): MARIN; CIONCA IP LAW PC; CIONCA MARIN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

260) Family number: 33611796 (US2009206084A)

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Title: PROGRAMMABLE LIQUID CONTAINERS

Abstract: The invention relates to liquid containers comprising a plurality of sealed additive chambers in communication with a vessel fillable with a liquid. The additive chambers comprise independently selected additives that may be added to a liquid in the container at the option of the user. The user can manually open the additive chambers of their choice and release the additive into a liquid in the vessel without destroying the integrity of the container. In this manner, the liquid containers are programmable by the users and various aspects of the liquid in the container, such as color and/or flavor, is controlled by the user.

Classifications:

International (ipc 8-9): A21C14/00 A21D10/02 A23C13/12 A23F3/14 A23F5/00 A23L1/221 A23L1/30 A23L2/40 A61J3/00 B65B29/02 B65D23/12 B65D25/02 B65D25/08 B65D25/20 B65D77/08 B65D81/24 B65D81/26 B65D81/28 B65D81/32 B65D85/00 B65D85/72 B65D85/76 C11B5/00 (Advanced/Invention); A23L1/03 A23L2/52 (Advanced/Non-invention); A21C14/00 A21D10/00 A23C13/00 A23F3/06 A23F5/00 A23L1/221 A23L1/30 A23L2/40 A61J3/00 B65B29/00 B65D25/02 B65D25/20 B65D77/00 B65D81/26 B65D81/32 B65D85/00 B65D85/72 C11B5/00 (Core/Invention)

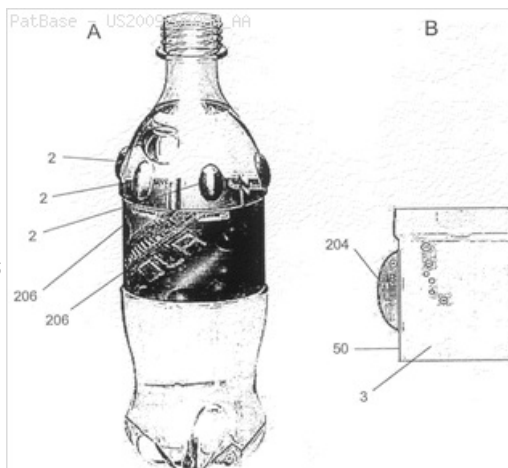
International (ipc 1-7): A21C14/00

CPC: A61J2200/40 A61J2200/50 A61J2200/72 A61J2205/30 A61J1/05 A61J2205/20 B65D25/08 B65D81/32 B65D81/3205

European: B65D81/32B K61J1/05 K61J205/20 K61J205/50

US: 156/145 156/145S 206/0.5 206/213.1 206/219 206/221 206/222 220/500 426/541 426/541S 426/586 426/586S 426/591 426/591S 426/594 426/594S 426/597 426/597S 426/648 426/648S 426/650 426/650S

Locarno class: 20/65



Family:

Publication number	Publication date	Application number	Application date
AT532722 E	20111115	AT20060739587T	20060324
AU2006241422 AA	20061109	AU20060241422	20060324
BRPI0607660 A2	20090922	BR2006PI07660	20060324
CA2606995 AA	20071026	CA20062606995	20060324
CN101247727 A	20080820	CN200680023902	20060324
DE602006025713 D1	20120126	DE200660025713T	20060324
EP1876901 A2	20080116	EP20060739587	20060324
EP1876901 A4	20090429	EP20060739587	20060324
EP1876901 B1	20111109	EP20060739587	20060324
IN05464CN2007 A	20080328	IN2007CN05464	20071128
JP2008539142 T2	20081113	JP20080508859T	20060324
US2009206084 AA	20090820	US20060913018	20060324
US2012298532 AA	20121129	US20120539733	20120702
US2014346063 AA	20141127	US20140452089	20140805
WO06118697 A2	20061109	WO2006US10878	20060324
WO06118697 A3	20070125	WO2006US10878	20060324

Priority:

US20050594704 20050429 US20050594704P 20050429 EP20060739587 20060324
US20060913018 20060324 WO2006US10878 20060324 US20080913018 20081105
US20120539733 20120702 US20140452089 20140805

Probable Assignee: IPIFINI INC

Assignee(s): (std): IPIFINI ; IPIFINI INC ; MARKS ANDREW S ; WOOLF TOD M ; WACHLER GLENN ; WOOLF SCOTT

Assignee(s): IPIFINI INC SUDBURY

Inventor(s): (std): GLENN WACHLER ; MARKS ANDREW S ; SCOTT WOOLF ; WACHLER GLENN ; WOOLF SCOTT ; WOOLF TOD M ; WOOLF TOD ; MARKS ANDREW

Inventor(s): WOOLF TOD M SUDBURY ; ANDREW S MARKS ; WOOLF SCOTT WEST BLOOMFIELD ; WACHLER GLENN BOCA RATON ; TOD M WOOLF ; MARKS ANDREW S WAYLAND

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; WINTER BRANDL FUERNISS HUEBNER ROESS KAISER POLTE PARTNERSCHAFT MBB; MATHYS AND SQUIRE; MATHYS AND SQUIRE LLP; LAHIVE AND COCKFIELD LLP FLOOR 30 SUITE 3000

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

261) Family number: 15441797 (US2004195376A)

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Title: LIQUID INJECTOR SYSTEM

Abstract: A liquid injector system includes a liquid injector (10) comprising a container (11) for containing a concentrated liquid and having an opening (13) which is closed by a valve (23). The valve (23) is biased to a closed position by leaf springs (28) and is opened by engagement by a nozzle. Pressure is applied to the concentrated liquid by means of a manually operable piston (19) so that, when the valve (23) is in an open position, at least some of the concentrated liquid is dispensed under pressure from the container (11).

Classifications:

International (IPC 8-9): B65B1/04 B65D B65D47/24 B65D81/32 B65D83/00 B67D B67D1/12 B67D5/02

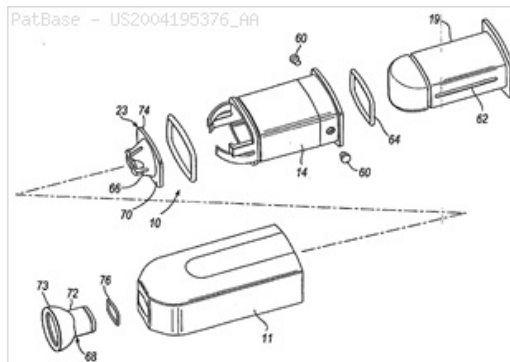
B67D7/02 (Advanced/Invention);
B65B1/04 B65D47/04 B65D81/32 B65D83/00 B67D1/00
B67D7/00 (Core/Invention);
B65D (Subclass/Non-invention)

International (IPC 1-7): A62C11/00 B65D47/24 B65D83/00 B67D1/12 B67D5/02

CPC: B65D47/248 B65D81/3255 B65D83/0005 B67D7/0227 B67D7/0294

European: B65D47/24E B65D81/32G B65D83/00A B67D7/02D B67D7/02G2

US: 141/100 141/301 239/357



Family:

Publication number	Publication date	Application number	Application date
AT316939 E	20060215	AT20020718370T	20020419
CA2482275 AA	20041019	CA20022482275	20020419
DE60209000 D1	20060413	DE20026009000	20020419
DE60209000 D1	20060413	DE20026009000T	20020419
DE60209000 T2	20061005	DE20026009000T	20020419
DK1383705 T3	20060612	DK20020718370T	20020419
EP1383705 A1	20040128	EP20020718370	20020419
EP1383705 B1	20060201	EP20020718370	20020419
ES2260423 T3	20061101	ES20020718370T	20020419
GB200109876 A0	20010613	GB20010009876	20010421
HK1064081 A1	20061117	HK20040105545	20040727
HK1064081 A1	20050121	HK20040105545	20040727
HK1064081 A3	20050121	HK20040105545	20040727
HK1064081 B	20061117	HK20040105545	20040727
JP2004528241 T2	20040916	JP20020583314T	20020419
PT1383705 T	20060630	PT20020718370T	20020419
US2004195376 AA	20041007	US20040475312	20040414
US7069966 BB	20060704	US20020475312	20020419
WO02085775 A1	20021031	WO2002GB01825	20020419

Priority:

GB20010009876 20010421 WO2002GB01825 20020419

Probable Assignee: AND TECHNOLOGY

Assignee(s): (std): AND TECHNOLOGY ; KUMAR NEILAN ; KUMAR NEILAN K ; KUMAR NEILAN KRISHNA

Assignee(s): NEILAN KRISHNA KUMAR ; NEILAN KRISHNA KUMAR 28 HILLCROSS AVENUE MORDEN LONDON SM4

Inventor(s): (std): KUMAR NEILAN KRISHNA ; KUMAR NEILAN K

Inventor(s): NEILAN KRISHNA KUMAR

Agent(s): CASSAN MACLEAN; HONG KONG PATENT REGISTRATIONS CO 4005 TOWER TWO LIPPO CENTRE 89; HONG KONG PATENT REGISTRATIONS CO; NIXON AND VANDERHYE PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

262) Family number: 11554807 (US5642762A)

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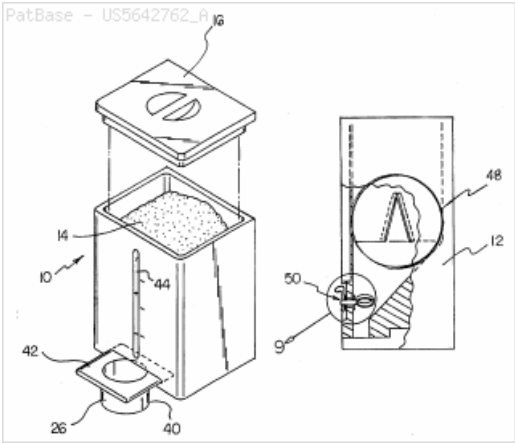
Title: Laundry soap dispenser

Abstract: A dispenser for supplying a predetermined amount of laundry detergent into a measuring cup. The inventive

device includes a container having a dispensing aperture directed through a lower surface thereof. A valve plate is movably mounted within a channel extending along the lower surface of the container and covers the aperture. A measuring cup is positionable into the channel to bias the valve plate from over the aperture to dispense laundry detergent from the container into the cup.

Classifications:

International (IPC 8-9): A47K5/10 D06F39/02 G01F11/18 G01F19/00 (Advanced/Invention)
International (IPC 1-7): B65B1/00
CPC: A47K5/10 D06F39/02 G01F11/18 G01F19/00
European: A47K5/10 D06F39/02 G01F11/18 G01F19/00
US: 141/330 141/354 141/358 141/362 222/226



Family:

Publication number	Publication date	Application number	Application date
US5642762 A	19970701	US19950553916	19951106
US5899248 A	19990504	US19970886366	19970701

Priority:

US19950553916 19951106 US19970886366 19970701

Probable Assignee: GREENBERG JOE DAVID
Assignee(s): (std): GREENBERG JOE DAVID
Assignee(s): ANDERSON CRAIG JAMIESON
Inventor(s): (std): GREENBERG JOE DAVID ; ANDERSON CRAIG JAMIESON

263) Family number: 31311807 (US4269722A)

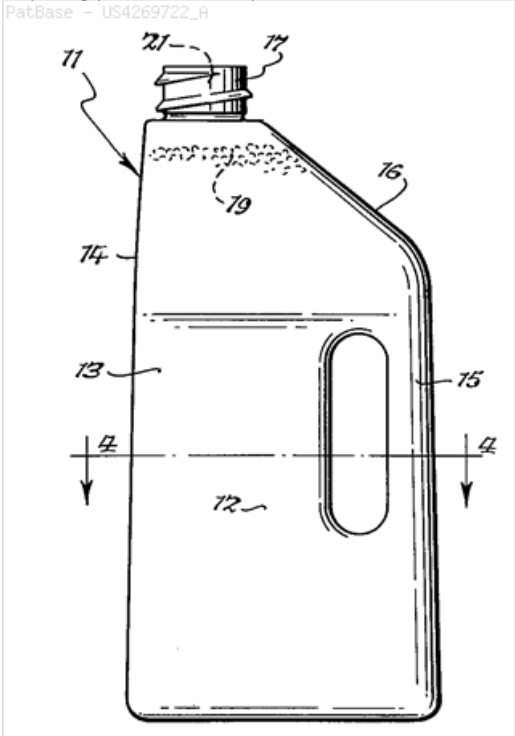
© PatBase

Title: Bottled particulate detergent

Abstract: A bottled particulate detergent is of certain particle sizes, bulk density and flowability and is contained in a necked bottle in which the neck opening is sufficiently small as to allow ready sealing with screw caps conventionally employed to close bottles while also allowing pouring from the bottle of the particulate detergent of the described characteristics. The bottle also includes a relatively narrow, hollow handle section through which the particulate detergent will flow. Also disclosed is a method of easily filling such bottles with free flowing particulate detergent. In both dispensing and filling operations, due to the characteristic of the detergent composition and the bottle, flow surprisingly like that of a liquid is obtained.

Classifications:

International (IPC 8-9): B65B1/06 B65D1/00 B65D23/00 B65D23/10 B65D85/00 C11D17/00 C11D17/04 C11D17/06 (Advanced/Invention); C11D17/00 (Advanced/Non-invention); B65B1/06 B65D23/10 B65D85/00 C11D17/00 C11D17/04 C11D17/06 (Core/Invention)
International (IPC 1-7): B65B1/00 B65B1/04 B65B1/06 B65B1/30 B65B39/12 B65D1/00 B65D1/02 B65D23/00 B65D23/10 B65D83/06 B65D85/00 B65D85/70 C11D1/00 C11D1/02 C11D1/66 C11D1/72 C11D1/83 C11D11/02 C11D17/00 C11D17/04 C11D17/06 C11D3/04 C11D3/06 C11D3/075 C11D3/08 C11D3/10 C11D3/60
CPC: C11D17/04 B65D85/70 B65B1/06 B65D23/10 C11D17/046 C11D17/06
European: B65B1/06 B65D23/10 B65D85/70 C11D17/04 C11D17/06
US: 141/1 141/18 215/1C 215/398 215/40 215/44 252/135 252/174 252/174.13 252/174.14 252/174.21 252/89.1 252/90 510/293 510/324 510/345 510/351 510/356 510/438 510/443 510/506 8/137 D9/376 D9/381 D9/528



Family:

Publication number	Publication date	Application number	Application date
AT690777 A	19840415	AT19770006907	19770928
AU197728632 A1	19790315	AU19770028632	19770908
AU198542063 A1	19850905	AU19850042063	19850507

AU199066719 A1	19910131	AU19900066719	19901116
AU600430 B2	19900816	AU19850042063	19850507
BE859192 A	19780116	BE19770181301	19770929
BR7706399 A	19780801	BR19770006399	19770926
CA1119112 A1	19820302	CA19770287404	19770923
CH631482 A	19820813	CH19770011804	19770927
DE2742683 A1	19780330	DE19772742683	19770922
DE2742683 C2	19910829	DE19772742683	19770922
DE2742683 C3	19910829	DE19772742683	19770922
DK152293 B	19880215	DK19770004308	19770929
DK152293 C	19880725	DK19770004308	19770929
DK430877 A	19780330	DK19770004308	19770929
ES462701 A1	19780701	ES19770462701	19770928
FR2366357 A1	19780428	FR19770029009	19770927
FR2366357 B1	19820723	FR19770029009	19770927
GB1584410 A	19810211	GB19770039751	19770923
GR69922 B	19820721	GR19770054318	19770908
GR69922 B	19820721	GR19770154318	19770908
HK44383 A	19831028	HK19830000443	19831020
IE46048 B	19830209	IE19770001985	19770928
IE46048 L	19780329	IE19770001985	19770928
IT1089897 A	19850618	IT19770051141	19770926
JP1488693 C3	19890323	JP19770117275	19770929
JP53043710 A2	19780420	JP19770117275	19770929
JP61038240 B4	19860828	JP19770117275	19770929
MX148555 A	19830506	MX19770170658	19770922
MY8300113 A	19831231	MY19830000113	19831230
MY8500487 A	19851231	MY19850000487	19851230
NL176924 C	19850701	NL19770010667	19770929
NL7710667 A	19780331	NL19770010667	19770929
PH16226 A	19830809	PH19770020266	19770923
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PT67072 B	19810901	PT19770067072	19770923
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SG8490297 A	19850215	SG19840090297	19840410
US4269722 A	19810526	US19780964037	19781221
US4351740 A	19820928	US19800171325	19800723
US4444673 A	19840424	US19820338546	19820111
US4549977 A	19851029	US19840571118	19840116
ZA7705371 A	19790425	ZA19770005371	19770906

Priority:

US19760727838 19760929 CA19770287404 19770923 US19780964037 19781221
US19800171325 19800723 US19820338546 19820111 AU19820082698 19820416
US19840571118 19840116 AU19850042063 19850507

Probable Assignee: COLGATE PALMOLIVE CO

Assignee(s): (std): COLGATE PALMOLIVE CO ; COLGATE PALMOLIVE CO TE NEW YORK ; COLGATE PALMOLIVE CY

Assignee(s): COLGATE PALMOLIVE COMPANY TE NEW YORK ; COLGATE PALMOLIVE COMPANY ; JOSHI DAVID ; KLINGAMAN RICHARD J ; COLGATE PALMOLIVE CO 300 PARK AVE NEW YORK NY 1002 ; COLGATE PALMOLIVE CO A CORP OF DEL ; COLGATE PALMOLIVE CO NEW YORK N Y US ; COLGATE PALMOLIVE CO SOC DELLO STATO DEL DELAWARE

Inventor(s): (std): R J KLINGAMAN ; RICHAAO JEEMUSU KURINGAMAN ; RICHARD JAMES KLINGAMAN ; RICHYAADO JIEEMUSU KURINGAMAN ; KLINGMAN R J ; KLINGAMAN RICHARD JAMES ; KLINGAMAN RICHARD J ; KLINGAMAN RICHARD ; KLINGAMAN R J ; KLINGAMAN R ; JOSHI DAVID ; JOSHI D ; DEEBITSUDO JIYOSHI ; D JOSHI ; DAVID JOSHI ; DEEBITSUDO JOSHI ; JOSHI DAVID PISCATAWAY NJ ; KLINGAMAN RICHARD JAMES DARIEN CONN

Inventor(s): KLINGAMAN RICHARD JAMES DARIEN CONN US ; JAMES KLINGAMAN RICHARD ; JOSHI DAVID PISCATAWAY N J ; JOSHI DAVID PISCATAWAY N J US

Agent(s): FB RICE PTY LTD; FB RICE; SMART AND BIGGAR

264) Family number: 31618811 (PH8018U)

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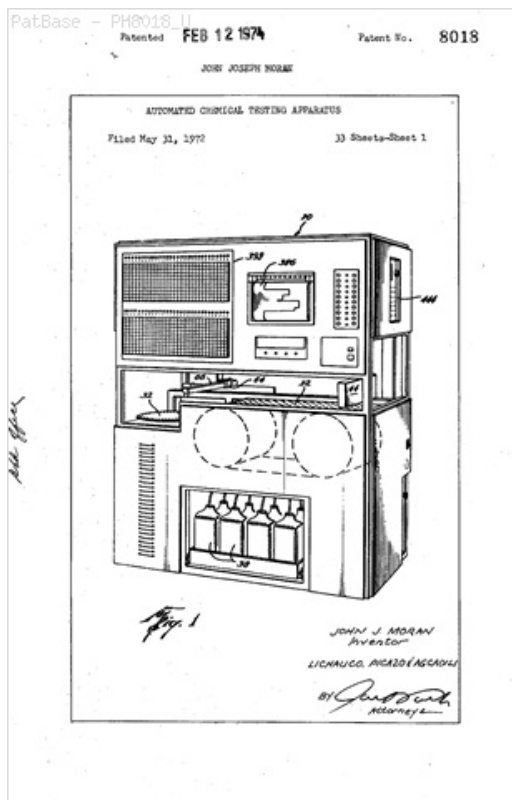
Title: IMPROVED TRANSPARENT TOILET SOAP

Abstract: f3:1J Np.: ffi5I Patented / ' , , ---,--c..PHILIP~ PATiNi' IJ-tJ JOEN JOSEPH MORAN A 8018 FEB 12 1974 • L5~ Title: AUTOMATED CHEMICAL TESTING APP~RUS .LIn~ntor (s): JOm(JOSEHH MORAN, City of Houston, Texas, U.S.A. fffsignee: HYCEL EUROPA N•V • Amsterdam; Netherlands, a cor-por-atdon o:f Netherlands " .L'~61!!iled: May 31, 1972· L ~., 12!7 Appl. Serial No. 13584 Forei~ Appliea~tion Priopitg J)a.ta 1)!7 Number (s) Ljg.7 Date(s) /)1/ Country(ies): 737,065 June 14, 1968 Uni ted 'States of America none 23-253 '~L5~ RP Cl., ~!7 Int. Cl..... !P\$J,Field of Search.'... ' 23-253 Reference 01ted i U.3., Pat. No.3, 432, 271. 4 WASILIDIISKI ABSTRACT/CLAIM 3-69 33 , This invention relates to improvements in an automated chemical testing apparatus which provides, automation routine chemistry procedures to Provide more uniform procedures greater efficiency, accuracy and at a lower unit cost. " ,

Classifications:

International (IPC 8-9): C11D9/26 (Advanced/Invention); C11D9/04 (Core/Invention)

International (IPC 1-7): C11D9/26



Family:

Publication number	Publication date	Application number	Application date
PH8018 U	19950907	PH19920012313U	19921028

Priority:

PH19920012313U 19921028

Probable Assignee: JOHNSON AND JOHNSON PHILIPPINES
Assignee(s): (std): JOHNSON AND JOHNSON PHILIPPINES
Assignee(s): JOHNSON AND JOHNSON PHILIPPINES INC
Inventor(s): (std): DY DUMALASA LEONARDO S ; LAMBINO DANILO L

265) Family number: 31779817 (US2003224090A)

© PatBase

Title: SNACKS OF ORALLY SOLUBLE EDIBLE FILMS

Abstract: Various embodiments of snacks of orally soluble edible films are disclosed. The snacks may include one or more layers of film that is orally soluble and disintegrates quickly upon placement in a human mouth without leaving substantial residue that can be felt by the human tongue or which needs to be swallowed or ejected from the mouth.

Classifications:

International (IPC 8-9): A23G3/00 A23G3/36 A23G3/50 A23G3/54
A23L1/00 A23L1/22 A61K9/00 A63B37/08 A63B43/00 A63H33/04
A63H33/28 B29C44/02 B32B27/36 B41M5/035 B43K23/008
B43K5/00 B43M99/00 B65D65/46 C08J9/00 C08J9/26

C08K3/00 (Advanced/Invention);

A63B37/08 (Advanced/Non-invention);

A23G3/00 A23G3/34 A23L1/00 A23L1/22 A61K9/00 A63B37/02

A63B43/00 A63H33/04 A63H33/28 B29C44/02 B32B27/36

B41M5/035 B43K23/00 B43K5/00 B43M99/00 B65D65/46 C08J9/00

C08K3/00 (Core/Invention);

A63B37/02 (Core/Non-invention)

International (IPC 1-7): A01K1/00 A23G3/00 A23G3/30 A23K1/175

A23L1/00 A23L1/30 A46B5/01 A46B5/02 A61K9/68 A63B37/08

B01F17/02 B29C44/02 B32B3/20 B41M5/035 B41M5/38 B65D1/00

C08J3/00 C08J9/00 C08K3/00 C08L29/04 F16L1/00

CPC: A23G3/36 A23G3/368 A23G3/50 A23G3/54 A23P10/30

A23P20/20 A23V2002/00 A61K9/0056 A63B37/08 A63B43/008

A63B2037/085 A63B2208/12 B32B27/36 B43K5/005 B43K23/008

C08J2201/0444 A23G1/52 A23G3/0065 Y10T428/13 A63H33/04

A63H33/28 B41M5/0355 B43M99/006 C08J9/26 Y10S428/91

Y10T428/1352 Y10T428/24744 Y10T428/2861 Y10T428/31786

A23L27/79 B65D65/463

European: A23G3/36 A23G3/36M4 A23G3/50 A23G3/54

A23L1/00P4 A23L1/00P8E A23L1/22B10 A61K9/00M18B A63B37/08

A63B43/00V A63H33/04 A63H33/28 B32B27/36 B41M5/035C

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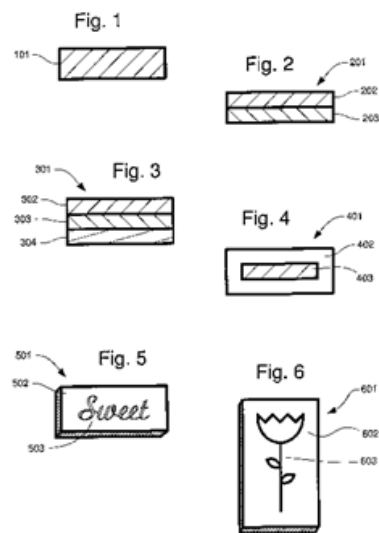
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428/35.7 428/355RA 428/480 428/910 446/117 446/267 446/385

473/594 503/227 516/14 516/18 521/79 521/82 524/270 524/503

524/515 524/58

**Family:**

Publication number	Publication date	Application number	Application date
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US7138079 BB	20061121	US20030364903	20030211
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Priority:

US20020356279P	20020211	US20020368821P	20020401	US20020325721	20021220
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US20040934335	20040902	US20040948111	20040923		

Probable Assignee: EDIZONE LLC**Assignee(s):** (std): EDIZONE LC ; PEARCE TERRY V ; PEARCE TONY M**Assignee(s):** TNT HOLDINGS LLC ; EDIZONE LLC**Inventor(s):** (std): PEARCE TERRY V ; PEARCE TONY M

Inventor(s): TERRY V PEARCE ; TONY M PEARCE ; PEARCE TONY ; PEARCE TERRY
Agent(s): PARSONS BEHLE AND LATIMER SUITE 1800; PARSONS BEHLE AND LATIMER; PARSONS BEHLE AND LATIMER, SUITE 1800; MCCARTHY DANIEL P; DANIEL P; DANIEL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

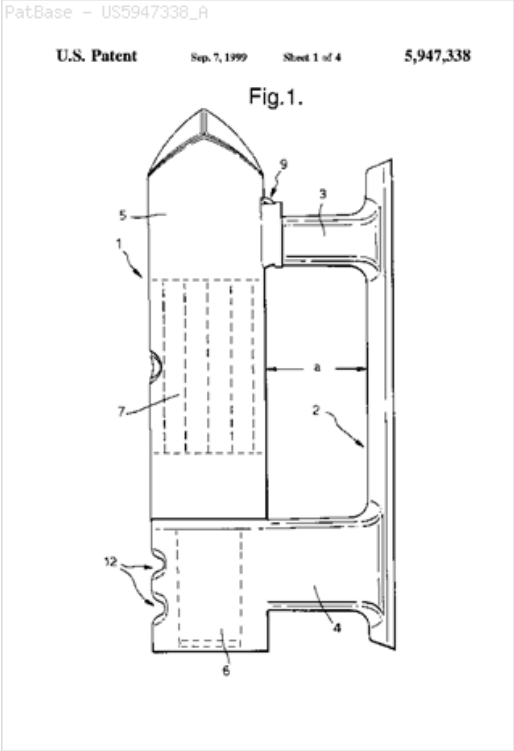
266) Family number: 12888820 (US5947338A) © PatBase

Title: Dosing dispenser for liquid soap or the like

Abstract: A dosing dispenser for liquid soap, hair shampoo or similar fluids is provided, having a holder (2), releasably retaining at its two free end zones (3,4) a storage vessel (5) from which the fluid is dischargeable by way of a delivery valve of a discharge device (6), the storage vessel and discharge device connected thereto forming a replaceable refill unit, wherein the holder (2) has an inverted F-shape and is equipped with a holding sleeve (8) positioned at one of the two free end zones (3,4), locally embracing the refill unit, and forming an integral part of the holder, and wherein the replaceable refill unit is secured to the holder by means of a safeguard to prevent pilfering present in one of the free end zones. Said dosing dispenser was found to be user-friendly and suitable for use with storage vessels of widely varying shape.

Classifications:

International (IPC 8-9): A47K1/00 A47K5/122 (Advanced/Invention)
International (IPC 1-7): A47K 5/122 A47K1/00 A47K1/00 A47K5/122 B67D5/06
CPC: A47K5/122
European: A47K5/122
US: 222/153.09 222/181.1 222/181.2 222/181.3 222/494



Family:

Publication number	Publication date	Application number	Application date
AU199872970 A1	19980610	AU19980072970	19971030
AU727019 B2	20001130	AU19980072970	19971030
BRPI9713085 A	20000328	BR1997PI13085	19971030
CA2270175 AA	19990427	CA19972270175	19971030
CA2270175 C	20070130	CA19972270175	19971030
CL1997002506 A1	19980804	CL19970002506	19971119
DE69718815 D1	20030306	DE19976018815	19971030
DE69718815 T2	20030703	DE19976018815T	19971030
EP0842630 A1	19980520	EP19960203231	19961119
EP0941033 A1	19990915	EP19970948886	19971030
EP0941033 B1	20030129	EP19970948886	19971030
ES2188999 T3	20030701	ES19970948886T	19971030
JP2001504019 T2	20010327	JP19980523133T	19971030
JP3744547 B2	20060215	JP19980523133T	19971030
TH34464 A	19990813	TH19971004712	19971117
TR9901088 T2	19990721	TR19990001088T	19971030
US5947338 A	19990907	US19970964098	19971106
WO9822008 A1	19980528	WO1997EP06122	19971030
ZA9710341 A	19990507	ZA19970010341	19971117

Priority:

EP19960203231 19961119 EP19970948886 19971030 WO1997EP06122 19971030

Probable Assignee: JOHNSON DIVERSEY INC

Assignee(s): (std): UNILEVER PLC ; DIVERSEY LEVER INC ; UNILEVER NV ; JOHNSON DIVERSEY INC

Assignee(s): DIVERSEY INC WAS KNOWN AS JOHNSON DIVERSEY INC.; PRITCHARD NORMAN JASON ; JOHNSON DIVERSEY INC ; UNILEVER N V ; BUDSWORTH PAUL ; BUNSCHOTEN GERRIT KLAAS ; CITIBANK NA ADMINISTRATIVE AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AG AS ; DIVERSEY INC

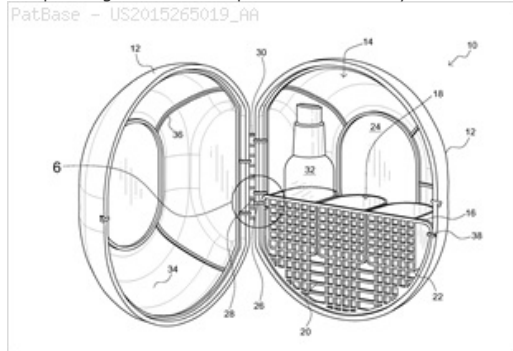
Inventor(s): (std): BUDSWORTH PAUL ; BUNSCHOTEN GERRIT KLAAS ; BUNSCHOTEN GERRIT KLASS ; BUNSCHOTEN

Inventor(s): BUNSCHTEN GERTI KLAAS ; GERRIT KLAAS BUNSCHOTEN ; GERRIT KLAAS BUNSCHOTEN ; NORMAN JASON PRITCHARD ; PAUL BUDSWORTH

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; SARGENT

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU ID IE IL IS IT JP KE KG KP KR KC LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG US VN YU ZW

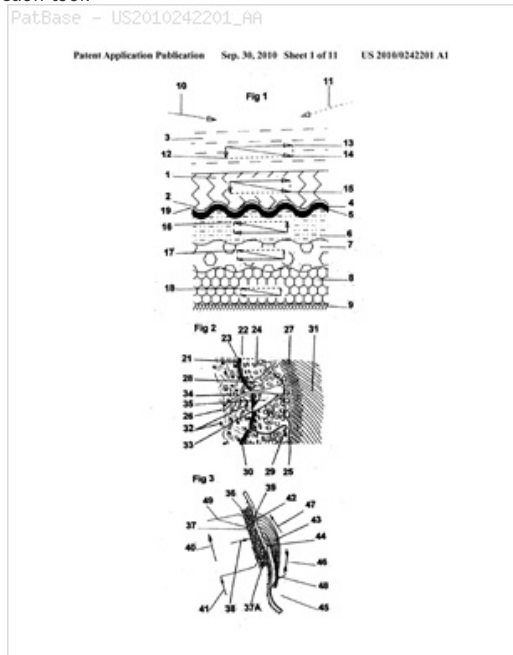
International (IPC 8-9): A45C11/00 A45C13/00
A45C5/00 (Advanced/Invention)
CPC: A45C11/008 A45C5/005 A45C13/005
US: 132/315 220/4.22 220/4.25 220/509



Publication number	Publication date	Application number	Application date
US2015265019 AA	20150924	US20150661270	20150318

Inventor(s): (std): NIEDZWIECKI DEIDRE L ; NIEDZWIECKI THOMAS R ; WILKINSON JAMES T

International (IPC 8-9): A45D34/04 A47K7/02 A61H23/02 A61H7/00
D04H13/00 (Advanced/Invention);
A45D34/04 D04H13/00 (Advanced/Non-invention);
A45D34/04 A47K7/02 A61H23/02 A61H7/00
D04H13/00 (Core/Invention);
A45D34/04 D04H13/00 (Core/Non-invention)
International (IPC 1-7): A61H7/00
CPC: A61H2201/0153 A61H7/002 A61H7/005 A45D34/04
A45D2200/1018 A61H7/003 A61H23/0254 A61H2201/105 D04H1/62
D04H3/045 D04H3/12 D04H13/00
European: A45D34/04 A61H7/00D A61H7/00D2 A61H7/00D4B
A61H7/00S D04H1/62 D04H13/00 D04H3/045 D04H3/12
K45D200/10B2 K61H201/10N K61H23/02R
US: 15/229.11 15/229.110P



Family:

Publication number	Publication date	Application number	Application date
EP2222267 A1	20100901	EP20080853004	20081124
GB200723092 A0	20080102	GB20070023092	20071123
GB2455286 A1	20090610	GB20070023092	20071123
IN03509DN2010 A	20110114	IN2010DN03509	20100518
US2010242201 AA	20100930	US20080744239	20081124
WO09066086 A1	20090528	WO2008GB03915	20081124

Priority:

GB20070023092 20071123 WO2008GB03915 20081124

Probable Assignee: BALL BURNISHING MACH TOOLS

Assignee(s): (std): BALL BURNISHING MACH TOOLS ; LINZELL GEOFFREY ROBERT

Assignee(s): BALL BURNISHING MACHINE TOOLS LIMITED ; BALL BURNISHING MACHINE TOOLS LTD

Inventor(s): (std): LINZELL GEOFFREY ROBERT

Inventor(s): GEOFFREY ROBERT LINZELL ; LINZELL GEOFFREY

Agent(s): FOX ROTHSCCHILD LLP,PRINCETON PIKE CORPORATE CENTER; LINZELL GEOFFREY ROBERT

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

269) Family number: 29578848 (US2003209564A)

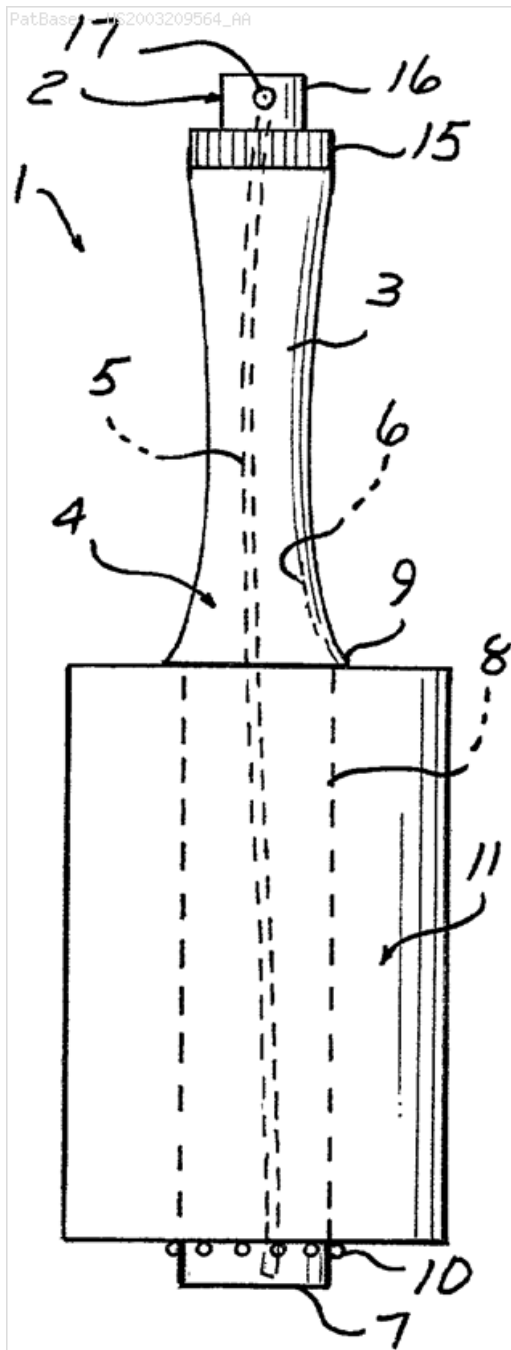
© PatBase

Title: Lint remover and spray dispenser apparatus

Abstract: A lint remover and spray dispenser apparatus rotatably supports a tubular adhesive lint remover tape roll or fixedly supports a single strip or multiple strips of a directional lint remover fabric. The apparatus includes an elongated handle section and a cylindrical or oblong support section. The elongated handle has an open end having external threads adjacent to the open end. A spray top having a hand pump and a threaded cap is mounted on the elongated handle. The liquid container-handle combination may be a molded polymer container having a trigger activated spray pump attached thereto. Alternately, the handle is configured to receive a separate liquid spray dispenser container.

Classifications:

International (IPC 8-9): A01K13/00 A45D19/02 A45D44/18
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A46B15/00 A46B17/06 A46B7/02 A46B7/10 A46B9/08 A47L1/02
A47L1/08 A47L11/02 A47L13/12 A47L17/00 A47L23/02 A47L25/00
A47L25/08 B05B11/00 B05C1/00 B05C17/02 B08B1/00 B25G1/00
B44D5/00 B65D83/14 B67D1/07 G03D5/06 (Advanced/Invention);
A45D19/00 A45D34/04 A46B13/00 A46B5/04 B05B11/00
B05C17/02 (Advanced/Non-invention);
A01K13/00 A45D19/00 A45D44/00 A46B11/00 A46B13/00
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invention);
B08B (Subclass/Invention)
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B25G1/00 B43M11/02 B44D5/00 B67D1/07 B67D5/06 G01F11/30
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Y10T16/444
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15/168 15/168S 15/169 15/169P 15/169S 15/176.6 15/179 15/184
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16/111.1 222/192 222/321.1 222/321.100S 401/129 401/137
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401/188.00RS 401/188R 401/219 401/219P 401/27 401/270
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**Family:**

Publication number	Publication date	Application number	Application date
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CA2428388 C	20060502	CA20032428388	20030509
CN1882267 A	20061220	CN200480034270	20041118
CN1933760 A	20070321	CN200580002199	20050112
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US2003209564 AA	20031113	US20020143396	20020510
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US7020926 BB	20060404	US20050116899	20050428
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US7234188 BA	20070626	US20030672909	20030926
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US7364380 BB	20080429	US20040851503	20040521
US7377001 BB	20080527	US20060443881	20060531
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WO05112692 A3	20061026	WO2005US17830	20050520
WO05112693 A2	20051201	WO2005US17898	20050523
WO05112693 A3	20070329	WO2005US17898	20050523

Priority:

US20020143396	20020510	US20020426589P	20021115	US20020302038	20021122
US20020329717	20021226	CA20032428388	20030509	CA20032428388	20030509
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US20070975978	20071023				

Probable Assignee: HARTZ MOUNTAIN CORP

Assignee(s): (std): HARTZ MOUNTAIN CORP ; MCKAY WILLIAM ; MCKAY WILLIAM D

Assignee(s): RAPID BRANDS CORP

Inventor(s): (std): MCKAY WILLIAM ; MCKAY WILLIAM D ; MCKEY WILLIAM D

Inventor(s): MCKEY WILLIAM

Agent(s): SIM AND MCBURNEY; WILLIAM M HANLON JR YOUNG AND BASILE PC; WILLIAM M HANLON JR, YOUNG AND BASILE PC; GOTTLIEB RACKMAN AND REISMAN PC; JEFFREY M; GOTTLIEB RACKMAN AND REISMAN

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

270) Family number: 2166848 (EP0169501A2)

© PatBase

Title: READY FOR USE GLUE CARTRIDGE.

Abstract: The ready-to-use adhesive packs are characterised by the following features: a) adhesives based on thickened creamy or pasty emulsion polymers which are readily spreadable but do not flow without the application of pressure and which contain a homopolymer and/or copolymer of adhesive character stabilised with protective colloids or thickeners in the aqueous phase as a disperse solid are b) present in containers which can be grasped with one hand and have a discharge opening for the adhesive and a means for controlled dispensing of adhesive wherein c) there is provided a means which reduces the adhesive-filled interior of the container at a rate commensurate with the rate of discharge of adhesive in such a way that the adhesive material remaining behind in the container is always void-free and safe from air return. The preferred adhesives are stabilised aqueous emulsion polymers having viscosities (Brookfield RTV, 20 degrees centigrade and 20 rpm) of at least 15,000 mPas, in particular within the range from 50,000 to 500,000 mPas, and they contain as thickeners of virtually unlimited storage life polyethylene glycol or copolyethers of ethylene oxide and propylene oxide having an average molecular weight of at least 3,000.

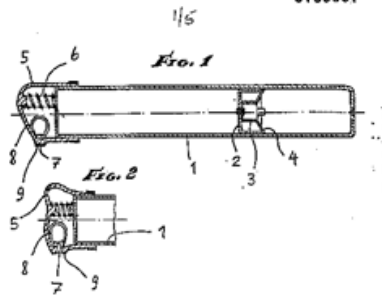
Classifications:

International (IPC 8-9): B05B11/00 B43M11/06 B65D25/52
B65D30/02 B65D35/30 B65D35/46 B65D83/00 B65D85/72
C08L31/04 C08L33/08 C08L57/00 C09J11/00 C09J11/06 C09J157/00
C09J5/00 (Advanced/Invention);
B05B11/00 B43M11/00 B65D25/38 B65D30/02 B65D35/00
B65D35/24 B65D83/00 B65D85/72 C08L31/00 C08L33/00
C08L57/00 C09J11/00 C09J11/02 C09J157/00
C09J5/00 (Core/Invention)

International (IPC 1-7): B05C9/12 B43M11/06 B65D25/52
B65D35/14 B65D35/30 B65D35/36 B65D35/46 B65D47/20
B65D47/24 B65D47/34 B65D83/00 B65D85/72 C08L31/04
C08L33/08 C08L57/00 C09D C09J3/00 C09J3/14 C09J5/00
H01L27/08

CPC: B05B11/00416 B05B11/3015 B05B11/00 B05B11/3028
B05B11/3032 B65D83/0033 C09J157/00

European: B05B11/00 B05B11/00B5A4 B05B11/00P3N
B05B11/00P5 B05B11/00P5N B05B11/30C6 B05B11/30E
B05B11/30E6 B65D83/00A4 C09J157/00

**Family:**

Publication number	Publication date	Application number	Application date
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AU198942921 A1	19900201	AU19890042921	19891016
BRPI8503560 A	19860422	BR1985PI03560	19850726
DE3427727 A1	19860206	DE19843427727	19840727
DE3427728 A1	19860206	DE19843427728	19840727
DE3428915 A1	19860213	DE19843428915	19840806
DE3446697 A1	19860626	DE19843446697	19841221
DE3522363 A1	19890202	DE19853522363	19850622
DK321685 A	19860128	DK19850003216	19850715
DK321685 A0	19850715	DK19850003216	19850715
EP0169501 A2	19860129	EP19850108968	19850718
EP0169501 A3	19880113	EP19850108968	19850718
ES545598 A0	19870816	ES19850545598	19850726
ES8707755 A1	19870816	ES19850545598	19850726
FI852904 A	19860128	FI19850002904	19850725
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JP61040387 A2	19860226	JP19850166627	19850726
KR19860000998 A	19860222	KR19850005420	19850727
NO852970 A	19860128	NO19850002970	19850725
PT80864 A	19850801	PT19850080864	19850725
PT80864 B	19881215	PT19850080864	19850725
TR23520 A	19900301	TR19850033628	19850726
ZA8505657 A	19860326	ZA19850005657	19850726

Priority:

DE19843427727 19840727 DE19843427728 19840727 DE19843428915 19840806
 DE19843446697 19841221 DE19853522363 19850622 AU19850045520 19850726

Probable Assignee: HENKEL KGAA**Assignee(s):** (std): HENKEL KGAA**Assignee(s):** HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN ; AKTIEN HENKEL AUF KG ; HENKEL AUF AKTIEN KG ; HENKEL KG AUF AKTIEN**Inventor(s):** (std): BORUFUGANKU DEIRITSUHSU ; BORUFUGANKU RITSUTAA ; DIERICHS WOLFGANG ; DIERICHS WOLFGANG DR ; FRIEDRICH FUES JOHAN ; FUES JOHAN FRIEDRICH ; FUES JOHANN FRIEDRICH ; FUES JOHANN FRIEDRICH DIPL CHE ; FUES JOHANN FRIEDRICH DR ; GIYUNTAA SHIENKU ; GUENTER SCHENCK ; HANDWERK HANS PETER ; HANSU KURISUTOFU BIRUKU ; HANSU PEETAA HANTOBERUKU ; RITTER WOLFGANG DR ; SCHENCK GUENTER ; SCHENCK GUENTER DIPL CHEM DR ; SCHENCK GUENTER DR ; SCHENCK GUNTER ; SCHENCK GUNTER DR ; WILK HANS CHRISTOF ; WILK HANS CHRISTOF DR ; WILK HANS CHRISTOPF ; WILK HANS CHRISTOPH DIPL CHEM ; RITTER WOLFGANG ; RITTER WOLFGANG DIPL CHEM DR ; WILK HANS CHRISTOPH DR ; YOHAN FURIIDORITSUHI FUESU**Inventor(s):** WOLFGANG DIERICHS ; WOLFGANG RITTER ; RITTER WOLFGANG DIPL CHEMDR ; WILK HANS CHRISTOPH DIPL CHEM DR ; WILK HANS CHRISTOPH DIPL CHEMDR ; SCHENCK GUENTER DIPL CHEMDR ; JOHANN FRIEDRICH FUES ; HANS CHRISTOF WILK ; HANS PETER HANDWERK ; GUNTER SCHENCK ; DR GUNTER SCHENCK ; DR HANS CHRISTOF WILK ; DR JOHANN FRIEDRICH FUES ; DR WOLFGANG DIERICHS ; DR WOLFGANG RITTER ; FRIEDRICH DIPL CHEM DR FUES JOHANN ; FRIEDRICH DIPL CHEMDR FUES JOHANN**Agent(s):** SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD**Designated states:** AT BE CH DE FR GB IT LI LU NL SE

Title: Bristled soap dispenser

Abstract: A self-contained soap dispensing apparatus having a hollow body with an inner chamber for retainment of liquid soap, an outer surface, and passages or ducts connecting the inner chamber to the outer surface which has bristles thereon. A pump within the inner chamber allows soap to flow from the inner chamber to the outer surface on demand. The soap dispensing apparatus is readily portable and can be used in a wide variety of locations, such as an automobile, an airplane, an RV, and the like.

Classifications:

International (IPC 8-9): A46B11/02 A47K5/12

B05C21/00 (Advanced/Invention);

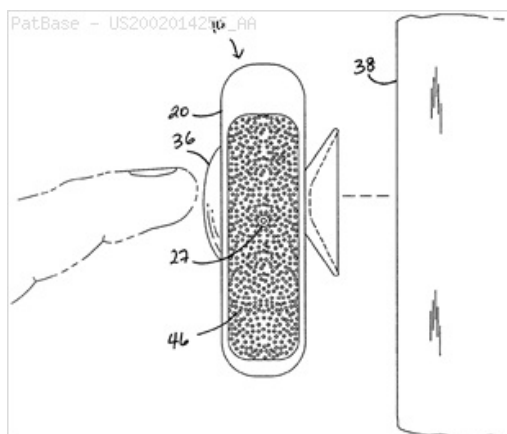
A46B11/00 A47K5/00 (Core/Invention)

International (IPC 1-7): A46B11/04 B05C21/00 B08B1/00

CPC: A47K5/1202

European: A47K5/12C

US: 134/6 15/104.92 401/188R 401/270 401/6



Family:

Publication number	Publication date	Application number	Application date
AU200138863 A1	20010424	AU20010038863	20000921
AU200138863 A5	20010424	AU20010038863D	20000921
US2002014256 AA	20020207	US20010917558	20010727
US6629799 BB	20031007	US20010917558	20010727
WO121325 A1	20010329	WO2000US26091	20000921
WO121325 C2	20021003	WO2000US26091	20000921

Priority:

US19990155334P 19990922

US20000221084P 20000727

WO2000US26091 20000921

US20010917558 20010727

Probable Assignee: FLORES JR EUSTACIO R

Assignee(s): (std): EUSTACIO R FLORES JR ; FLORES EUSTACIO R ; FLORES EUSTACIO R JR ; GANDARA DAVID B

Assignee(s): DAVID B GANDARA ; FLORES JR EUSTACIO R

Inventor(s): (std): FLORES EUSTACIO R ; FLORES JR EUSTACIO R ; GANDARA DAVID B ; FLORES EUSTACIO R JR

Inventor(s): DAVID B GANDARA ; EUSTACIO R FLORES JR

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: PUMP FOR DISPENSING A FLUID PRODUCT AND DISPENSER

Abstract: A pump for dispensing a fluid product comprises: a liquid chamber (102), for containing a liquid product; a liquid inlet valve (106), for admitting a body of liquid product into the liquid chamber; a liquid outlet valve, for regulating passage of liquid product from the liquid chamber to a dispensing head; and compression means (108), for applying a compressional force to the body of liquid product, thus forcing liquid product from the liquid chamber (110) through the liquid outlet valve (112). It additionally comprises: an air chamber, for containing air; an air inlet valve, for admitting air into the air chamber; an air outlet device (114), for conducting air from the air chamber to the dispensing head; and pressurizing means (116) for reducing the volume of the air chamber, thus forcing air from the air chamber through the air outlet device. The liquid inlet valve (104) is elastically biased in a closed position, and is a duckbill valve.

Classifications:

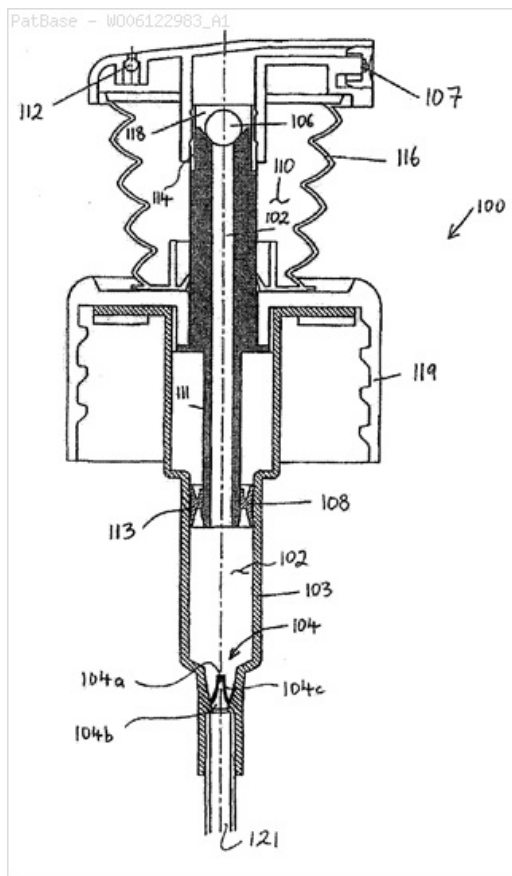
International (IPC 8-9): A47K5/12 A47K5/14

B05B11/00 (Advanced/Invention);

A47K5/00 B05B11/00 (Core/Invention)

CPC: B05B11/3067 B05B11/3069 B05B11/3087

European: B05B11/30H7B B05B11/30H7B2 B05B11/30L



Family:

Publication number	Publication date	Application number	Application date
W006122983 A1	20061123	WO2006EP62472	20060519

Priority:

EP20050076171 20050519 US20050683321P 20050523

Probable Assignee: BENTFIELD EUROP BV

Assignee(s): (std): BENTFIELD EUROP BV ; GANZEBOOM WILHELMUS EVERHARDUS

Assignee(s): BENTFIELD EUROPE B V ; BENTFIELD EUROPE BV

Inventor(s): (std): GANZEBOOM WILHELMUS EVERHARDUS

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

273) Family number: 54914851 (IN00970DE2011A)

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Title: BOTTOM DENTIFRICE DISPENSING TOOTHBRUSH

Abstract: A 'Bottom Dentifrice Dispensing Toothbrush', mainly consists of (1) the cap, (2) the main body, having a head tufted with bristle and a hollowed tubular body for storing liquid, gel, or paste compositions, particularly for oral health-hygiene-cosmetic applications including dentifrice, cleaning / polishing agent, mouth-wash / freshener, and antibacterial/antiviral agent, and / or in general any other oral or dental applications including medical, therapeutic, health, hygiene, cleaning, and cosmetics, (3) a manually actuated pump mechanism for dispensing the composition on demand from the bottom end of the body, and (4) the dock to park it when not in use. The toothbrush is operated by depressing the bottom-end fitted with a nozzle which causes dentifrice material to be pumped from the reservoir. By simultaneous action of extending the applicator to dispense a controlled portion of dentifrice material directly from the bottom side of the toothbrush, it can be conveniently and efficiently operated with single hand.

Classifications:

International (IPC 8-9): C07C (Advanced/Invention)

Title of the Invention: Bottom Dentifrice Dispensing Toothbrush

Patent Application No.: 970DEL/2011

Mithlesh Kumar Singh

Brijender Singh

Surinder Singh

No. of Sheet - 2
Sheet No.-1

Figure - 1

M. K. Singh
(Mithlesh Kumar Singh)

Brijender Singh
(Brijender Singh)

Surinder Singh
(Surinder Singh)

Date: 01 May 2012

Family:

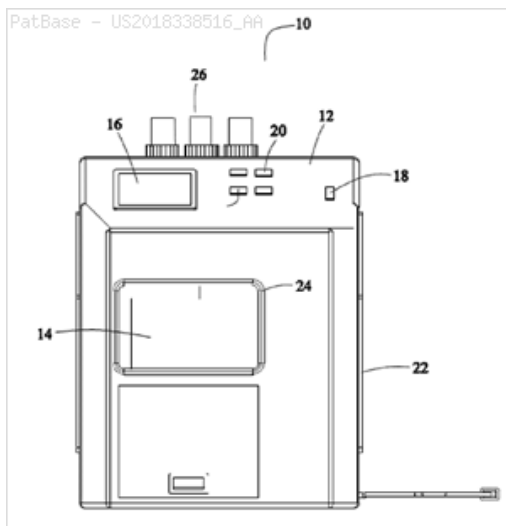
Publication number	Publication date	Application number	Application date
IN00970DE2011 A	20131004	IN2011DE00970	20110705

Probable Assignee: BRIJENDER SINGH**Assignee(s):** BRIJENDER SINGH ; MITHILESH KUMAR SINGH ; SURINDER SINGH**Inventor(s):** BRIJENDER SINGH ; MITHILESH KUMAR SINGH ; SURINDER SINGH**274) Family number: 71658861 (US2018338516A)**

© PatBase

Title: GRINDING DEVICE WITH SELF-CLEANING AND FERMENTATION ASSIST AND METHODS OF USING THE SAME

Abstract: Automated grinder systems include several different automatic functions including liquid and substrate soaking, mixing, grinding, fermenting, and cleaning. Example grinders include storages for soaking and draining a substrate for grinding, a water or other fluid reservoir connected to provide soaking material, and a grinder connected to the storage to receive and grind the substrate. A resting unit may receive the ground batter and potentially ferment the same by controlling its temperature, humidity, pH, etc. Jets may be connected to a water reservoir and direct liquid water into the grinder, potentially with soap, to cleanse the same.

Classifications:**International (IPC 8-9):** A23L7/10 A23L7/104 B02C23/40 B02C4/06 B02C4/16 B24B27/00 (Advanced/Invention)**CPC:** A23L7/197 A23L7/104 A23V2002/00 B02C4/16 B02C4/06 B02C23/40**Family:**

Publication number	Publication date	Application number	Application date
IN201824019557 A	20181026	IN201824019557	20180524
US2018338516 AA	20181129	US20180989170	20180524

Priority:

US20170510510P 20170524 US20180989170 20180524

Probable Assignee: JAGADEVAN KARTHIKEYAN**Assignee(s): (std):** JAGADEVAN KARTHIKEYAN**Assignee(s):** KARTHIKEYAN JAGADEVAN**Inventor(s): (std):** JAGADEVAN KARTHIKEYAN

275) Family number: 28286869 (US2002132214A)

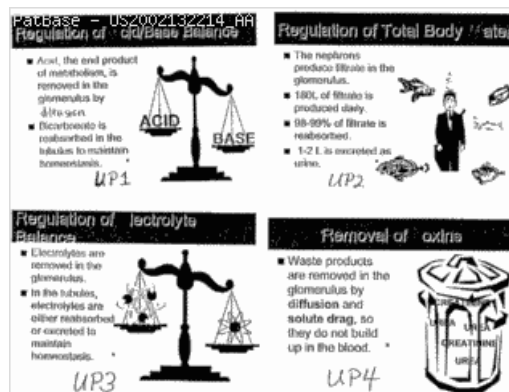
© PatBase

Title: MEDICAL PATIENT TRAINING SYSTEMS AND METHODS

Abstract: A system and/or a method for training a patient/learner, the system or method including one or more training modules, each training module involving a concept or operation to be learned, at least one such training module containing an illustration of at least a part of the concept or operation and including the presentation to the patient/learner of the illustration of a training module, and the presentation to the patient/learner of the concept or the operation; and the demonstration by the patient/learner of the concept or the operation. A system or method of this invention may particularly involve dialysis or peritoneal dialysis patients.

Classifications:**International (IPC 8-9):** G09B23/28 (Advanced/Invention);

G09B23/00 (Core/Invention)

International (IPC 1-7): G09B7/00**CPC:** G09B23/28**European:** G09B23/28**US:** 434/323 434/365**Family:**

Publication number	Publication date	Application number	Application date
US2002132214 AA	20020919	US20020042050	20020107

Priority:

US20010260160P 20010105

US20020042050 20020107

Probable Assignee:

GAMBRO INC

Assignee(s): (std):

GAMBRO INC

Inventor(s): (std):

HALL GAYLE W ; MATTSON LINDA A

276) Family number: 62228873 (US2016287032A)

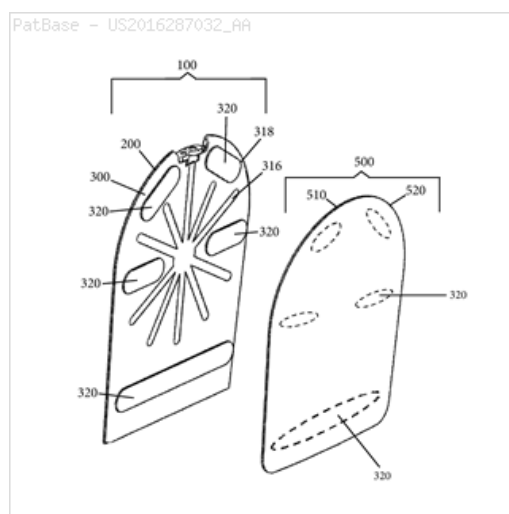
© PatBase

Title: PERSONAL CLEANING SYSTEM

Abstract: The invention describes a cleaning system in the form of a mitt having cleaning pads attached by reversible fastening means so that pads may be electively and consecutively attached, removed, or replaced. Furthermore, the invention provides a means for introducing, retaining, dispensing, and distributing a fluid, such as water or a liquid cleaning product, so that a removable pad may be irrigated with a regulated dose of fluid prior to use. The invention also describes a cooperative enclosure that can store a plurality of cleaning pads. Features of the compatible enclosure serve to physically guide the body of the mitt into alignment with a replacement pad.

Classifications:**International (IPC 8-9):** A47K5/12 A47K7/03

A47L13/19 (Advanced/Invention)

CPC: A47K7/03 A47K5/1201 A47L13/19 A47L13/51**US:** 1/1 15/104.93**Family:**

Publication number	Publication date	Application number	Application date
US2016287032 AA	20161006	US20160084174	20160329
US2017079483 AA	20170323	US20160294204	20161014
US2017238770 AA	20170824	US20170449265	20170303
US9326645 BA	20160503	US20150677532	20150402
US9808130 BB	20171107	US20160084174	20160329
US10039424 BB	20180807	US20160294204	20161014
US10219657 BB	20190305	US20170449265	20170303

Priority:

US20150677532 20150402 US20150242195P 20151015 US20160084174 20160329
US20160294204 20161014 US20170449265 20170303

Probable Assignee: TACTOPACK INC

Assignee(s): (std): INVISIBLE PRODUCT GROUP LLC ; TACTOPACK INC

Inventor(s): (std): STACHOWSKI BREANNA ; MURRAY CHRIS ; BANK STEVEN ; ALBERT JONATHAN D ; ALBERT JONATHAN

Agent(s): LEASON ELLIS LLP; ELLIS EDWARD J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

277) Family number: 11957879 (US6006374A)

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Title: Showerhead attachment and method for generating aromas

Abstract: A showerhead attachment is used for generating aromas. The showerhead attachment holds an aroma containing material such as a gelatin type capsule to be intermixed with a portion of the running water and discharged through a discharge orifice. The showerhead attachment comprises a housing, a dispensing chamber, a removable and attachable cylinder, and a filter assembly. As water begins to flow through a water supply conduit, it will exit the conduit and enter into an inlet port of the housing to course through the housing and around the dispensing chamber and on through an outlet port, where the water will flow through the showerhead into a cleansing stream raining down upon the bather. As the water enters the housing and flows around the dispensing chamber, a small portion of the total volumetric flow will enter an inlet orifice and will thus be diverted into an auxiliary water stream flowing into the dispensing chamber. The auxiliary water stream will proceed into a side compartment of the cylinder, where it will impinge upon the gelatin capsule, then flow down toward a bottom open end and around a connecting shaft end of an upper attachment portion. The pressure created by the auxiliary water stream onto the capsule will create in essence a squeezing effect upon the capsule and/or a dissipation of the capsule that will cause aromatic gel to trickle out through an upper orifice member, a bottom orifice member and the filter assembly.

Classifications:

International (IPC 8-9): B05B7/24 E03C1/046 (Advanced/Invention);

B05B1/18 (Advanced/Non-invention);

B05B7/24 E03C1/04 (Core/Invention);

B05B1/18 (Core/Non-invention)

International (IPC 1-7): A61H33/06

CPC: B05B1/18 B05B7/2462 E03C1/046

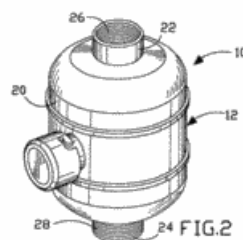
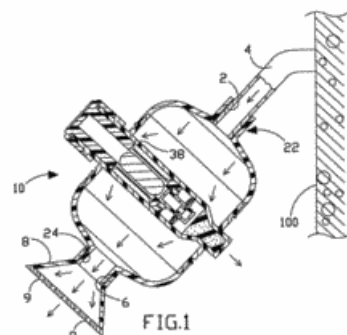
European: B05B7/24A6 E03C1/046 L05B1/18

US: 239/312 239/590.3 4/525 4/601 4/605 607/83

Locarno class: 45/25

PatBase - US6006374_A

U.S. Patent Dec. 28, 1999 Sheet 1 of 4 6,006,374


Family:

Publication number	Publication date	Application number	Application date
US6006374 A	19991228	US19980159338	19980923

Priority:

US19980159338 19980923

Probable Assignee: AQUASANA INC

Assignee(s): (std): WINNETT HAROLD G ; URFIG BERNARD ILAN

Assignee(s): SUN WATER SYSTEMS INC ; AQUASANA INC ; ENHANCED CAPITAL TEXAS FUND II LLC ; ENHANCED CAPITAL TEXAS FUND LP ; FCP FUND II LP ; PRAESIDIAN CAPITAL OPPORTUNITY FUND III LP AGENT AS

Inventor(s): (std): URFIG BERNARD ILAN ; WINNETT HAROLD G

278) Family number: 28290889 (US2003231485A)

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Title: TUBULAR ELECTRO-LUMINESCENT PANEL(S) LIGHT DEVICE

Abstract: A tubular Electro-Luminescent panel(s) light device offer a desired bending directions with super brightness basing on certain width of panel incorporated proper inverter system. The said panel(s) with much narrow width than tube means to allow the panel(s) can be bend at any direction and angle within the tube means to offer a desired light effects. The said panel(s) can be flat or twisted within the tube means which may have the desired colored, transparency, wall thickness, diameter, shape, length for requirement. The said device may incorporated with non-elastic means, magnetic means, tube holder, sensor means, Integrated circuit to add a lot of desired variety features.

Classifications:

International (ipc 8-9): A41D27/08 A41G1/00 A42B1/24 A43B3/00 A45C15/06 B60Q1/26 B60Q3/02 B60R11/00 B60R13/00 C10G1/00 C12M1/00 C12M1/06 C12M1/12 C12M1/34 C12M3/00 F21K2/00 F21K9/232 F21K9/235 F21K9/275 F21K9/60 F21K9/65 F21K99/00 F21L13/00 F21L14/00 F21L4/00 F21L4/02 F21L4/08 F21S10/00 F21S10/02 F21S10/06 F21S2/00 F21S4/00 F21S4/28 F21S6/00 F21S8/00 F21S8/08 F21S9/02 F21S9/03 F21V1/00 F21V1/10 F21V11/00 F21V11/08 F21V13/00 F21V13/02 F21V14/00 F21V14/02 F21V14/06 F21V14/08 F21V15/01 F21V17/00 F21V17/02 F21V17/10 F21V17/12 F21V17/16 F21V19/00 F21V19/02 F21V21/00 F21V21/005 F21V21/08 F21V21/088 F21V21/092 F21V21/096 F21V21/14 F21V21/22 F21V21/26 F21V21/30 F21V23/00 F21V23/02 F21V23/04 F21V23/06 F21V25/00 F21V25/02 F21V29/00 F21V29/502 F21V29/70 F21V3/00 F21V3/02 F21V31/00 F21V33/00 F21V5/00 F21V5/04 F21V7/00 F21V7/04 F21V8/00 F21V9/00 F21V9/16 F21Y113/13 F21Y115/10 G01J5/00 G01S3/786 G02B27/22 G02F1/13 G02F1/1335 G02F1/13357 G03B1/00 G03B15/03 G03B15/05 G03B19/18 G03B21/00 G03B21/14 G03B21/20 G03B23/00 G03B29/00 G03B3/00 G03H1/22 G04B19/04 G04B19/30 G04B37/12 G04B47/00 G04C10/00 G04C19/00 G04G99/00 G06F1/26 G06K9/00 G06T7/00 G06T7/20 G06T7/70 G08B13/196 G08B13/24 G09F13/18 G09F13/22 G09F23/00 G09F23/04 G09F9/33 G09G3/30 G09G3/32 H01L21/00 H01L21/68 H01R13/00 H01R11/00 H01R13/66 H01R24/76 H01R25/00 H01R27/00 H01R3/00 H01R33/00 H01R33/009 H01R33/92 H01R39/00 H02G3/14 H02J4/00 H02J7/00 H02J7/02 H02M1/00 H04N1/21 H04N5/225 H04N5/232 H04N5/235 H04N5/247 H04N5/33 H04N5/76 H04N5/77 H04N7/18 H04N9/31 H05B33/08 H05B35/00 H05B37/00 H05B37/02 H05B41/30 (Advanced/Invention); B60R13/02 F21K9/23 F21K9/235 F21K9/238 F21S2/00 F21S9/02 F21V1/10 F21V19/00 F21V21/22 F21V21/29 F21V21/30 F21V23/00 F21V23/04 F21V23/06 F21V33/00 F21V8/00 F21V9/08 F21W121/00 F21W131/30 F21Y101/00 F21Y101/02 F21Y113/10 F21Y113/13 F21Y115/10 F21Y115/30 F21Y2115/10 F21Y2115/30 G01S3/786 G02B5/32 G03B21/14 G09F13/22 H01H9/18 H01J7/44 H01R103/00 H01R13/713 H01R24/76 (Advanced/Non-invention); A42B1/00 A43B3/00 A45C15/00 B60Q3/00 B60R11/00 B60R13/00 F21L4/00 F21S4/00 F21V1/00 F21V17/00 F21V21/00 F21V21/005 F21V21/08 F21V21/14 F21V23/00 F21V23/04 F21V3/00 F21V33/00 G03B21/00 G03B21/14 G09F13/22 H01R3/00 H01R33/00 H05B37/02 (Core/Invention); B60R13/02 G02B5/32 (Core/Non-invention)

International (ipc 1-7): F21V21/00 F21V21/08 F21V9/16 G01D11/28 G02B6/04 H01J1/62 H01R11/00

CPC: A42B1/242 A41D27/085 A42B1/244 A43B1/0036 A43B3/0005 A45C15/06 B60Q1/26 F21S2/00 G09F13/22 H05B37/0245 F21V19/00 F21V19/0015 F21V19/003 G03B15/03 H05B37/0218 H05B37/0236 Y02B20/42 F21V33/006 G02B6/0021 G02B6/0045 G09F23/00 H01H2009/186 H02G3/14 A43D999/00 B60R11/00 B60R13/00 B60R2011/0063 B60R2013/0287 H04M1/05 H04M1/6058 F21S10/066 H05B33/0857 A43C9/02 F21V19/02 F21V1/00 F21V3/00 F21V23/045 F21V5/048 F21V7/0066 G03B21/2086 Y10T307/406 H05B33/0842 F21S10/007 F21V14/006 G06F1/266 H02J7/0042 F21S2/005 F21L4/00 F21S4/10 F21S4/20 A43B3/001 G03B21/20 F21V3/026 F21V14/08 F21V23/023 F21V33/0048 H01R13/6675 F21V23/005 F21V21/092 G09F13/18 G09F2013/222 F21V15/01 F21V33/0024 F21V33/0056 H01R13/6691 H01R13/713 H01R25/006 F21V33/004 H02J7/0045 H02J7/027 G01J5/0025 G03B21/006 G02B27/22 G03B35/24 H05B33/08 H02J7/0027 H02J7/02 F21Y2103/006 Y10S362/806 F21V17/002 F21Y2107/40 F21V3/023 G03B23/00 F21Y2115/30 F21Y2103/37 H01R33/00 A61L9/03 A61L2209/12 F21S10/00 F21V9/00 F21V9/12 F21Y2105/00 F21Y2111/00 H05B33/0803 F21S10/06 F21V1/10 G09F9/33 G09F19/12 G03B21/001 G03B21/26 G03B23/10 H02J7/022 F21S10/02 G09F23/04 F21V23/003 A41G1/005 G02B6/0008 G02B6/001 F21V23/02 F21Y2103/10 F21Y2103/00 H04N5/23206 G04B47/02 H04N5/332 H04N5/2354 H04N5/23241 H04N5/76 F21K9/13 F21Y2101/02 G06T7/004 F21V3/02 F21V17/02 F21V19/006 G03B21/2033 G04B19/30 B60Q3/78 F21W2131/109 H04N5/2257 G03B29/00 F21V5/00 F21V7/00 H02J7/0047 H02J2007/0059 H04N7/181 H02J7/0052 C12M21/12 C10G1/00 C12M23/06 C12M23/46 C12M27/02 C12M27/20 C12M41/40 G08B13/19619 G08B13/19636 G08B13/19656 G08B13/19695 C10G32/00 H04N5/23296 H04N5/77 H04N1/212 C12P5/00 G06K9/20 H04N7/188 H04N5/2252 H04N5/2256 H04N5/247 Y02B10/30 F21K9/238 F21V11/08 F21V23/006 F21W2131/30 F21Y2113/10 H02J7/0054 H02J7/35 F21V23/0407 F21Y2115/15 F21V9/083 F21V21/096 F21K9/65 F21K9/23 H01R13/665 H01R13/6683 H01R13/7175 H01R13/72 H01R24/60 H01R25/003 H01R33/00 F21V21/0925 F21V7/0008 F21Y2107/90 H01R25/142 H04N7/183 F21S6/003 G01J5/025 G01J5/041 G01J5/089 F21V29/502 F21V29/70 F21V23/0457 F21V23/0464 H01R33/06 F21V33/0004 F21V29/20 G02B6/00 H02J4/00 H02J7/007 G01V8/20 H04N9/3161 H04N9/3194 F21K9/235 F21V23/0478 F21V21/0824 F21V23/0471 G03B15/05 F21V25/00 G03B2215/0567 G03B2215/0503 F21V21/22 F21V21/30 F21V29/00 F21W2121/00 F21S8/038 F21S9/022 F21V9/08 F21V14/02 F21V23/0492 G01S3/7864 H04N5/2259 H04N5/772 F21V23/0435 G08B13/1966 F21K9/50 F21K9/135 F21K9/30 G09G3/3208 F21V23/008 H04N5/2258 F21V23/009 F21V31/005 F21S6/004 F21S8/033 F21V23/001 G04G99/00 G06K9/00369 G06K9/00771 G06T7/20 G08B13/2491 F21K9/58 F21V25/02 H04N9/315 F21S4/008 H04N9/3141 F21S9/03 F21Y2103/33 H04N7/186 F21Y2113/13 F21Y2115/10 H01R24/76 H01R33/92 H01R2103/00 F21S9/035 F21V33/00 H02J7/00 H02J2007/0062 H05B35/00 H05B37/00 H05B37/0227 H05B37/0281 G03B21/145 G03B21/53 F21S6/00 F21W2131/107 F21V23/04 F21V17/104 F21V17/16 F21V21/088 F21V17/105 F21K9/275 F21V21/005 F21S8/035 F21V21/14 G03B21/2053 G03B21/206 G03B21/208 F21K9/60 F21S6/002 F21S9/02 F21S10/023 F21S10/063 F21V23/06 F21K9/232 F21S4/28 F21S10/002 F21V21/08 F21V21/29 F21V23/0442 G03B21/142 F21V5/04 F21V13/02 F21V14/003 F21V14/06 F21V23/00 F21V33/0052 F21Y2101/00 G02F1/1313 G03B21/2046 Y10S362/80

European: A41D27/08B A41G1/00B8 A42B1/24B A43B1/00C10 A43B3/00E A43B3/00E10 A43D999/00 A45C15/06 A61L9/03 B60Q1/26 B60Q3/02Q B60R11/00 B60R13/00 F21K9/00 F21K9/135 F21S10/00 F21S10/00A F21S2/00 F21S4/00E F21S4/00L F21S4/00L6 F21S8/03G1 F21S8/03T F21S9/02 F21S9/02E F21V14/02 F21V21/08 F21V21/14 F21V23/04 F21V29/00 F21V33/00A F21V9/00 F21V9/08 F21V9/12 G02B27/22 G02B6/00L4E G02B6/00L4L G02B6/00L604S G03B21/00 G03B21/20 G03B35/24 G09F13/22 G09F19/12 G09F23/00 G09F9/33 H01R13/66D10 H01R25/00D H01R33/06 H01R33/09 H02G3/14 H04M1/05 H04M1/60T2B H05B33/08D K61L209/120 L60R11/00R4A15 L60R13/02R R21S10/06 R21S2/00A R21S8/03G1 R21V1/10 R21V21/22 R21V21/29 R21V21/30 R21V23/04S R21V23/04S8 R21V33/00B R21V9/08 R21W121/00 R21W131/109 R21Y101/02 R21Y103/00 R21Y103/025 R21Y105/00 R21Y111/00 S02B6/00L6I4S4 T01H9/18E T01R103/00 T01R13/66D10 T01R13/713 T01R24/76 Y02B10/30

US: 1/1 29/595 29/825 307/31 313/498 313/511 313/512 315/155 315/160 315/250 315/287 315/314 315/317 315/32 315/86 340/472 345/77 348/142 348/143 348/151 348/159 348/169 348/207.1 348/372 348/373 348/744 348/E5.024 348/E5.026 348/E5.043 348/E5.09 348/E7.085 348/E9.025 349/5 349/62 352/133 353/10 353/101 353/103 353/119 353/122 353/43 353/62 353/7 353/85 353/87 353/95 359/15 359/32 362/101 362/103 362/104 362/108 362/109 362/135 362/145 362/149 362/157 362/158 362/183 362/184 362/190 362/20 362/217.13 362/219 362/221 362/225 362/23 362/23.01 362/23.19 362/231 362/232 362/233 362/234 362/235 362/238 362/241 362/249 362/249.01 362/249.02 362/249.03 362/249.06 362/249.07 362/249.09 362/249.11 362/249.12 362/250 362/251 362/253 362/257 362/259 362/267 362/269 362/276 362/277 362/280 362/281 362/285 362/294 362/295 362/296.01 362/298 362/3 362/311 362/311.01 362/311.02 362/311.03 362/311.13 362/338 362/34 362/35 362/362 362/369 362/372 362/375 362/382 362/390 362/394 362/397 362/404 362/421 362/427 362/457 362/487 362/555 362/562 362/565 362/603 362/640 362/641 362/642 362/643 362/644 362/645 362/646 362/647 362/648 362/659 362/8 362/800 362/806 362/84 362/85 362/86 362/87 362/88 362/92 362/95 362/96 362/97.1 363/178 368/10 368/223 368/227 368/242 368/278 368/67 368/80 368/82 368/84 396/155 439/11 439/131 439/165 439/31 439/490 439/502 439/536 439/6 439/638 439/8 713/300

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: TORMACH LLC

Assignee(s): (std): CHIEN TAENG LU ; CHIEN TSENG L ; CHIEN TSENG LU ; TORMACH LLC ; WALLAGE RAYMOND ROGER

Inventor(s): (std): CHIEN TAENG LU ; CHIEN TSENG L ; WALLAGE RAYMOND ROGER ; CHIEN TSENG LU

Inventor(s): CHIEN TSENG

Agent(s): BACON AND THOMAS PLLC; ROBERT

279) Family number: 65690893 (US2017135532A)

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Title: SEQUENTIALLY ACTIVATED MULTI-DIAPHRAGM FOAM PUMPS, REFILL UNITS AND DISPENSER SYSTEMS

Abstract: Refill units for foam dispensers include a container for holding foamable liquid, a foam pump secured to the container, a foaming cartridge, an outlet and an actuation mechanism. The foam pump includes a housing, a liquid pump diaphragm, a plurality of air pump diaphragms, and a mixing chamber. An actuation mechanism releasably connects to a drive system in the dispenser. The actuation mechanism sequentially activates the liquid pump diaphragm and the air pump diaphragms when the refill unit is connected to the dispenser and the drive system. Sequential activation of the liquid pump diaphragm and air pump diaphragms causes the liquid pump diaphragm to pump at least a partial dose of liquid into the mixing chamber and the air pump diaphragms to pump at least a partial dose of air into the mixing chamber.

Classifications:

International (IPC 8-9): A47K5/12 A47K5/14 A47K5/16 A61K31/045

A61K8/368 A61K9/12 B05B11/00 B05B12/12 B05B7/00 B05B7/04

B05B7/24 F04B13/02 F04B19/06 F04B23/02 F04B23/04 F04B23/06

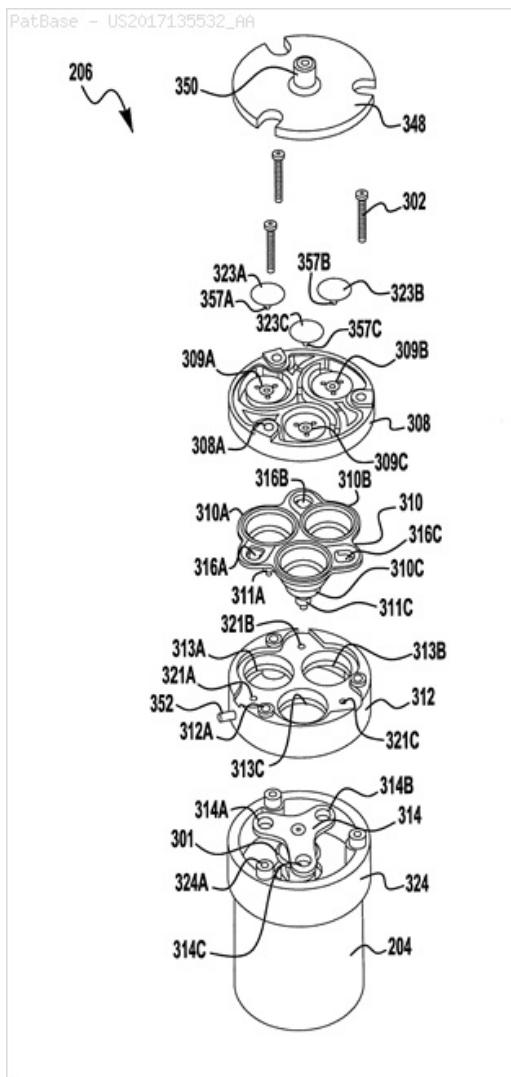
F04B43/02 F04B43/04 F04B45/04 F04B45/047 F04B49/06

F04B53/10 (Advanced/Invention)

CP: A47K5/14 B05B7/0416 F04B43/02 B05B12/122 F04B45/041

F04B23/04 A47K5/1208 A61K8/046 A61K8/34 A61K8/894

A61K2800/87 A61Q17/005 A61Q19/10 A61K9/122 F04B45/04
F04B43/023 A47K5/16 A61K31/045 B05B7/2402 F04B13/02
F04B19/06 F04B23/02 F04B23/06 F04B43/025 F04B43/04
F04B45/043 F04B45/047 F04B49/06 B05B7/0018 F04B43/026
A47K5/1211 A47K5/1217 B05B7/0062 A61K8/368 B05B7/0037
F04B53/10



Family:

Publication number	Publication date	Application number	Application date
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US2017135532 AA	20170518	US20160355112	20161118
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Priority:

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Probable Assignee: GOJO IND INC

Assignee(s): (std): GOJO IND INC

Assignee(s): HARRIS DONALD R ; JENKINS DENNIS K ; MCNULTY JOHN J ; TWAROSKI JACOB ; MARSHALL AARON D ; CIAVARELLA NICK E

Inventor(s): (std): CIAVARELLA NICK E ; HARRIS DONALD R ; JENKINS DENNIS K ; MARSHALL AARON D ; MCNULTY JOHN

J ; TWAROSKI JACOB ; WILLIS DANIEL M

Agent(s): COLLISON AND CO; SIM AND MCBURNEY; MARKS AND CLERK; TETZNER MICHAEL; CALFEE HALTER AND GRISWOLD LLP; BONNER CHET J ET AL; BONNER CHET J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

280) Family number: 30958894 (US6793434B)

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Title: Brush

Abstract: A brush having a brush member, and adjustable handle, and an optionally convex cover. The brush member accommodates a sponge. A first plurality of bristles extends from the brush member and each of a second plurality of orifices is disposed between the bristles, optionally in an offsetting relation. The handle extends from the brush member. The cover has a pair of slots accommodating the handle and overlays the sponge during use. It is emphasized that this abstract is provided to comply with the rules requiring an abstract that will allow a searcher or other reader to quickly ascertain the subject matter of the technical disclosure. It is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims. 37 C.F.R. § 1.72(b).

Classifications:

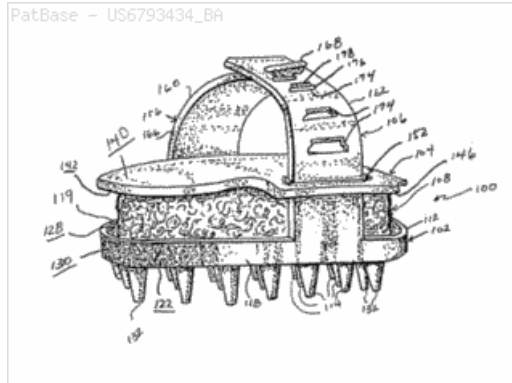
International (IPC 8-9): A46B11/00 A46B11/04 A46B5/04 (Advanced/Invention)

International (IPC 1-7): A46B11/04 A47L13/22

CPC: A46B5/04 A46B11/0041 A46B2200/1006

European: A46B11/00C6C A46B5/04 K46B200/10A

US: 15/144.1 15/144.3 401/282 401/286



Family:

Publication number	Publication date	Application number	Application date
US6793434 BA	20040921	US20030616401	20030709

Priority:

US20030616401 20030709

Probable Assignee:

OLSON ANITA D

Assignee(s):

OLSON ANITA D

Inventor(s): (std):

OLSON ANITA D

281) Family number: 26263895 (CH264575A)

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Title: MACHINE A LAVER. WASHING MACHINE. (Machine translation)

Abstract: Source: CH264575A [FR] (Claim 1) 1. -Machine a laver selon la revendication, caracterisee en ce que chacune desdites pa rois de bout presente une gorge annulaire (37, 38) dans laquelle la bague d'etancheite (40) est logee et engagee sur l'extremite adja cente de la paroi annulaire, chaque extre mite de ladite paroi annulaire penetrant dans la gorge attenante.

Machine translation: (Claim 1) 1. -Washing machine according to the claim, characterized in that each of said pa kings end has an annular groove (37, 38) in which the sealing ring (40) is housed and engaged on the end wall adjacent very center of the ring, each extre Moth said annular wall penetrating into the groove adjacent.

Classifications:

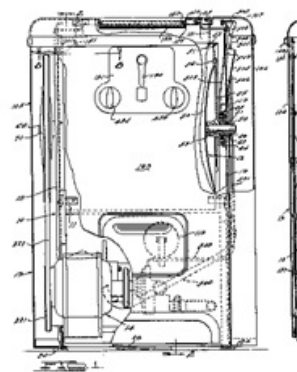
International (IPC 8-9): D06F37/04 (Advanced/Invention); D06F37/00 (Core/Invention)

International (IPC 1-7): D06F21/04

CPC: D06F37/04

European: D06F37/04

K. L. Jacobs Co.

**Family:**

Publication number	Publication date	Application number	Application date
CH264575 A	19491031		00000000

Probable Assignee: JACOBS CO F L
Assignee(s): (std): JACOBS CO F L
Assignee(s): F L JACOBS CO ; FL JACOBS CO
Inventor(s): (std): JACOBS CO F L
Inventor(s): CO FL JACOBS ; CO F L JACOBS

282) Family number: 29171898 (US2003188769A)

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Title: APPLIANCE FOR TREATING ARTICLES, PARTICULARLY NURSING BOTTLES AND ACCESSORIES

Abstract: Appliance (100) having a housing (101) of compact dimensions wherein articles, particularly nursing bottles (123, 179) and accessories (119), are treated inside a chamber (1). Treatment is achieved with dosed amounts of fresh water retrieved from a fresh water tank (7), by successive cycles of washing, rinsing, and sterilizing. The treatment cycles use additives and high-speed jets of heated liquid and of steam, which are filtered for repeated use. At the end of the treatment, liquids are purged to a wastewater tank (33). Self-treatment of the appliance is provided by use of the same treatment cycles. The appliance is independent of external water supply, portable and automatic for use in situ, where electricity supply is available.

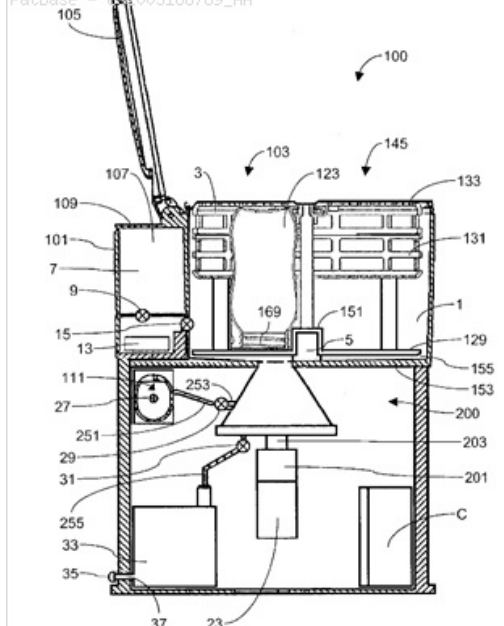
Classifications:**International (IPC 8-9):** B08B9/28 B08B9/32 (Advanced/Invention);

A61J9/00 (Advanced/Non-invention)

International (IPC 1-7): B08B3/00 B08B3/10 B08B9/08**CPC:** A61J9/00 B08B9/28 B08B9/32**European:** B08B9/28 B08B9/32 K61J9/00

US: 134/135 134/135S 134/148 134/152 134/152S 134/153
 134/166R 134/169R 134/57 134/57.00DP 134/57D 134/58
 134/58.00DS 134/58D 422/303

PatBase - US2003188769_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2003219494 AA	20031027	AU20030219494	20030407
US2003188769 AA	20031009	US20030408682	20030407

US6907893 BB	20050621	US20030408682	20030407
WO03086670 A1	20031023	WO2003IL00288	20030407

Priority:

US20020372392P 20020409 US20030408682 20030407 WO2003IL00288 20030407

Probable Assignee: BAY B RESEARCH AND DEVELOPMENT LTD

Assignee(s): (std): BAY B RES AND DEV LTD ; BAY B RESEARCH AND DEVELOPMENT LTD ; EISENBERG AVI ; WEINSTEIN YECHIEL

Inventor(s): (std): EISENBERG AVI ; WEINSTEIN YECHIEL ; YECHIEL WEINSTEIN ; AVI EISENBERG

Agent(s): FRIZHAUF HOLTZ GOODMAN AND CHICK PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

283) Family number: 30113899 (US2001001061A)

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Title: Assay for disease related conformation of a protein

Abstract: An assay method is disclosed which makes it possible to determine the presence of a diseased related conformation of a protein (e.g., PrPSc or the beta-sheet form of betaA4) in a sample. A sample is divided into two portions and the first portion is cross-linked to a first solid support and then contacted with a labeled antibody which binds to a non-disease form of the protein with a higher degree of affinity (e.g., 4 to 30 fold higher) than to the disease form of the protein. The second portion is treated in a manner which causes any disease form of the protein to change conformation to a form with a higher binding affinity for the labeled antibody. The treated second portion is then bound to a second solid support and contacted with labeled antibody. The level of labeled antibody binding to a protein in the first and second portions is determined and the amounts measured in each are compared. The difference between the two measurements is an indication of whether the disease related conformation of the protein was present in the sample. The method can also determine the concentration of the disease related conformation and the particular strain present.

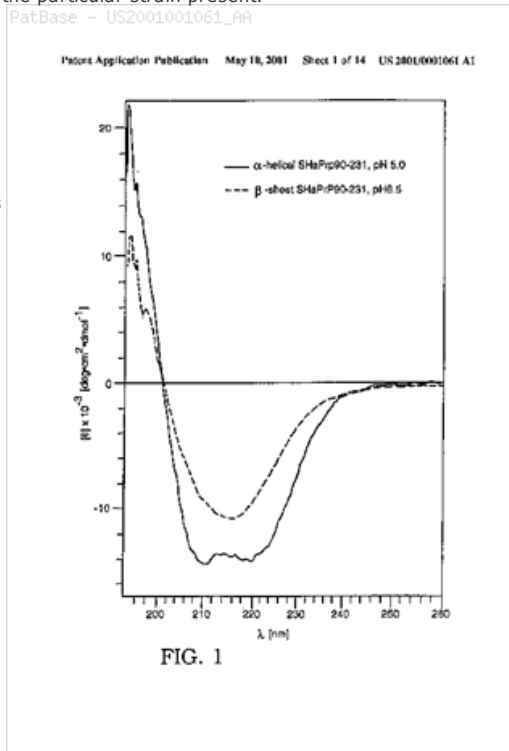
Classifications:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: THE UNIV OF CALIFORNIA

Assignee(s): (std): COHEN FRED E ; SUPATTAPONE SURACHAI ; SCOTT MICHAEL R ; UNIV CALIFORNIA ; PRUSINER STANLEY B ; SAFAR JIRI ; REGONTS OF UNIV OF CALIFORNIA ; SAFAR JIRI G ; THE REGENTS OF THE UNIVERSITY OF CALIFORNIA ; THE UNIV CALIFORNIA

Assignee(s): OF CALIFORNIA UNIV ; CALIFORNIA THE UNIV ; THE REGENTS OF THE UNIVERSITY OF CALIFORNIA OAKLAND ; UNIV OF CALIFORNIA ; THE UNIV OF CALIFORNIA OAKLAND ; THE UNIVERSITY ; UNIV ; THE UNIV ; THE REGENTS OF THE UNIVERSITY OF CALIFORNIA OAKLAN ; THE UNIV OF CALIFORNIA ; NATIONAL INST ; NATIONAL INSTITUTES OF HEALTH ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; NIH DEITR

Inventor(s): (std): COHEN FRED E ; FRED E COHEN ; MICHAEL R SCOTT ; PRUSINER B ; PRUSINER S B ; SCOTT R ; STANLEY B PRUSINER ; SURACHAI SUPATTAPONE ; SUPATTAPONE SURACHAI ; SCOTT MICHAEL R ; SCOTT MICHAEL ; SAFAR JIRI ; PRUSINER STANLEY B ; COHEN E ; SAFAR G ; SAFAR J G ; SAFAR JIRI G ; JIRI G SAFAR

Inventor(s): JIRI SAFAR ; SB PRUSINER ; PRUSINER STANLEY ; S B PRUSINER ; J G SAFAR ; JG SAFAR

Agent(s): FB RICE; FB RICE PTY LTD; FETHERSTONHAUGH AND CO; SHIMIZU HATSUSHI; BOZICEVIC FIELD AND FRANCIS LLP; BOZICEVIC KARL; KARL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Abstract: The invention relates to a mobile liquid dispenser (100) operating without auxiliary energy and/or ancillary devices. A pressure tank (111) is located inside a housing (110) having a moving mechanism (112) and a push handle (113), said tank being filled with liquid and having a pressurized gas layer on top of said liquid. A filling tube (114) is provided in order to fill liquid from a supply network. An ascending tube (118) runs upwards from the bottom of the pressure tank (111) and ends in a self-closing coupling (119). A sealing element (10) is allocated to the ascending tube (118) allowing for the liquid to run through and preventing the pressurized gas layer from escaping. A water hose (130, 131, 132) can be connected to the coupling (119). Alternatively, an additional housing (12) having a collecting basin can also be mounted, which can be filled via an ascending tube (121) and a water outlet (123) with a shut-off valve (124). The ascending tube (121) has a coupling (125) corresponding to the coupling (119) on the ascending tube (118) located in the housing (110). The inventive liquid dispenser (100) is particularly suitable for mobile drinking bowls for livestock.

Classifications:

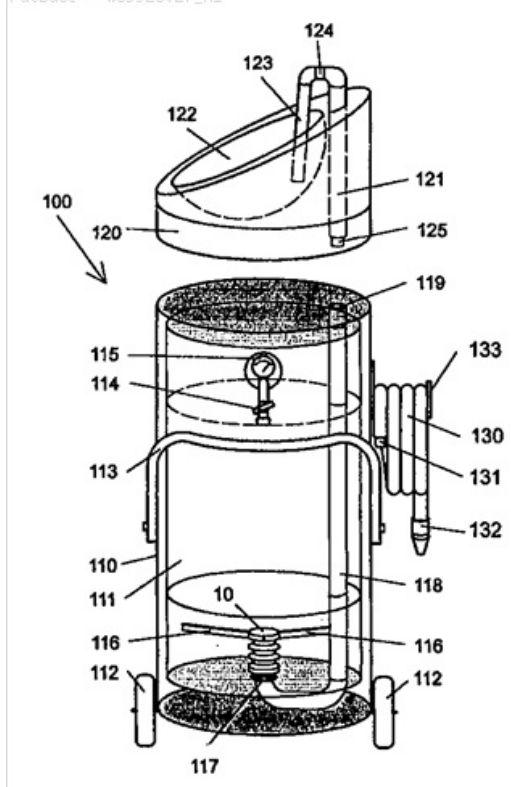
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International (IPC 1-7): B67D1/00 B67D1/04 B67D5/54 E03B11/00 E03B9/20

CPC: Y02A20/106 B67D7/0238 B67D7/72 B67D2210/00133 E03B11/02

European: B67D7/02E B67D7/72 E03B11/02 L67D210/00D16D

PatBase - W09923027_R1



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Priority:

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WO1998EP06878 19981030

Probable Assignee: ADAM GABI 66701 BECKINGEN DE

Assignee(s): (std): ADAM GABI ; SCHNEIDER ADOLF ; SCHNEIDER JOACHIM

Assignee(s): SCHNEIDER ADOLF 66701 BECKINGEN DE ; SCHNEIDER JOACHIM 66701 BECKINGEN DE ; ADAM GABI 66701 BECKINGEN DE ; ADOLF SCHNEIDER ; GABI ADAM ; JOACHIM SCHNEIDER

Inventor(s): (std): ADAM GABI ; ADOLF SCHNEIDER ; SCHNEIDER ADOLF ; SCHNEIDER JOACHIM ; JOACHIM SCHNEIDER ; GABI ADAM

Agent(s): FETHERSTONHAUGH AND CO

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

285) Family number: 1167912 (US3939527A)

© PatBase

Title: Portable surface cleaner

Abstract: A surface cleaning apparatus having a molded plastic housing and an upwardly and rearwardly projecting casing terminating at a handle. The lower portion of the housing includes a forward suction nozzle with an opening into a recovery tank and a molded plastic cover hingedly mounted over the recovery tank. The cover includes a downwardly projecting baffle adjacent the suction nozzle opening into the recovery tank. Suction is generated by a blower at the rear of the recovery chamber and a shield positioned in front of the blower prevents liquid flow from the recovery chamber into the blower. The cover includes a raised portion extending over the top of the shield and downwardly to a juncture with the forward baffle, the raised portion thereby defining a passageway around and over the shield whereby air is free to flow from the recovery chamber over the shield and into the blower. Liquid in the recovery chamber is pumped out through one compartment of a dual-compartment hose which empties into a remote drain. The other compartment of the dual-compartment hose is

connected to a faucet such that clean water is fed to a set of spray nozzles located in the apparatus just behind the suction nozzle. The upwardly projecting control casing includes a well molded therewith into which a solution bottle can be inverted and joined by a syphon line to the clean water line whereby the detergent solution can be introduced into the cleaning fluid as it is sprayed onto a carpet to be cleaned.

Classifications:

International (IPC 8-9): A47L11/34 B01F3/08

B01F5/04 (Advanced/Invention);

A47L11/00 B01F3/08 B01F5/04 (Core/Invention)

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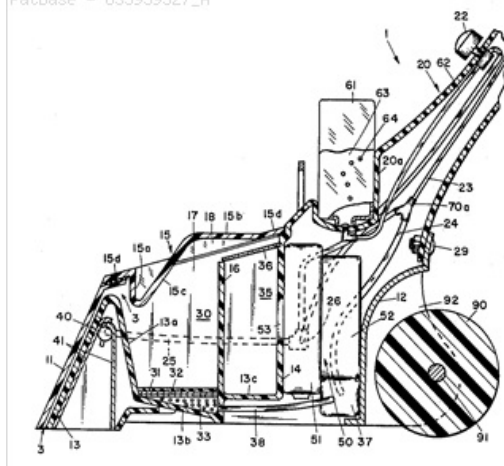
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US: 15/320 15/321 15/353

PatBase - US3939527_A



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Priority:

US19730405819 19731012

Probable Assignee: COOPER IND INC A CORP OF DE

Assignee(s): (std): CLARKE GRAVELY CORP

Assignee(s): CLARKE IND ; CLARKE IND INC ; COOPER IND ; COOPER IND INC 1001 FANNIN HOUSTON TEXAS 77002 A C ; COOPER IND INC A CORP OF DE ; COYNE CYLINDER CO ; MCGRAW EDISON CO ; EDISON INT ; STUDEBAKER WORTHINGTON INC ; WELLS FARGO BANK NA ; MARISON CYLINDER ; STODY DELORE STELLITE INC ; THERMAL DYNAMICS CORP ; TWECO PRODUCTS INC ; VICTOR EQUIPMENT CO INC ; EDISON INTERNATIONAL INC ; ARCAIR CO

Inventor(s): (std): JONES T H ; JONES TERRY H

Inventor(s): T H JONES ; TERRY H JONES ; TH JONES ; H JONES TERRY

286) Family number: 30220913 (US2001014717A)

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Title: COATING FOR IMPLANTABLE DEVICES AND A METHOD OF FORMING THE SAME

Abstract: Coatings for implantable devices or endoluminal prosthesis, such as stents, are provided, including a method of forming the coatings. The coatings can be used for the delivery of an active ingredient or a combination of active ingredients.

Classifications:

International (IPC 8-9): A61F13/00 A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/24 A61F2/30 A61F2/82 A61F2/84 A61F2/844 A61F2/86 A61F2/90 A61F2/91 A61K31/337 A61K31/436 A61K31/439 A61K31/4745 A61K31/56 A61K31/573 A61K45/00 A61K45/06 A61K9/00 A61K9/16 A61K9/22 A61K9/52 A61L A61L2/00 A61L27/00 A61L27/30 A61L27/34 A61L27/54 A61L27/58 A61L29/00 A61L29/08 A61L29/16 A61L31/00 A61L31/08 A61L31/10 A61L31/14 A61L31/16 A61L31/30 A61L33/10 A61M25/00 A61M29/02 A61M37/00 A61P1/02 A61P1/16 A61P13/02 A61P29/00 A61P3/06 A61P3/10 A61P31/04 A61P31/12 A61P35/00 A61P37/00 A61P37/06 A61P43/00 A61P7/00 A61P7/02 A61P7/04 A61P9/00 A61P9/08 A61P9/10 A61P9/14 B05C13/02 B05D1/02 B05D1/38 B05D3/00 B05D3/02 B05D3/04 B05D3/10 B05D5/00 B05D7/00 B29C65/10 B29C65/76 B29C71/02 B29D11/00 (Advanced/Invention);

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A61F2/06 A61F2/82 (Core/Non-invention)

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PatBase - US2001014717_AA

Patent Application Publication Aug. 16, 2001 Sheet 1 of 18 US 2001/004717 A1

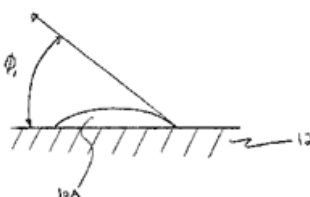


Figure 1A

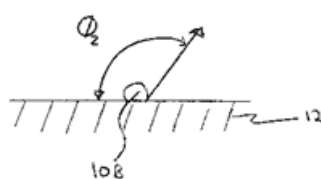


Figure 1B

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Probable Assignee: ABBOTT CARDIOVASCULAR SYSTEMS INC

Assignee(s): (std): ADVANCED CARDIOVASCULAR SYSTEMS INC ; FONG KEITH E ; BHAT VINAYAK ; CHEN YUNG MING ; GADA MANISH ; ANDREACCHI ANTHONY ; DING NI ; CONSIGNY PAUL ; DUGAN STEPHEN ; FEEZOR CHRISTOPHER ; CONSIGNY PAUL M ; ABBOT CARDIOVASCULAR SYSTEMS INC ; ABBOTT CARDIOVASCULAR SYSTEMS ; ABBOTT CARDIOVASCULAR SYSTEMS INC ; ADVANCED CARDIOVASCULAR SYSTEM ; ADVANCED CARDIOVASCULAR SYSTEMS ; CHENG JIN ; CHEN JIN ; SANDERS MILLARE DEBORRA ; GURUWAIYA JUDY A ; MIRZAE DARYUSH ; MANDRUSOV EVGENIA ; SHAH ASHOK ; ROYAL JEFF ; HAPP DORIE M ; SCHEINPFLUG KURT ; HU TY ; HAPP DORRIE M ; ROORDA WOUTER E ; PACETTI STEPHEN D ; SHAH ASHOK A ; HOSSAINY SYED F ; KRISTEN NANCY ; PARK GENE ; ROORDA WOUTER ; HOSSAINY SYED F A ; GADA MANSIH ; HOSSAINY SYED FAIYAZ AHMED ; GADA MANISH B ; WU STEVEN ; WU STEVEN Z ; TANG YIWEN ; STEWART GORDON ; ZHANG GINA ; WILLIAMS MARK A ; TANG FUH WEI ; VAN SCIVER JASON ; KIRSTEN NANCY ; HOSSAINY SAYED F A

Assignee(s): GUIDANT CORP ; MICHAL EUGENE T ; ROCHE DIAGNOSTICS GMBH ; ROCHE DIAGNOSTICS OPERATIONS INC ; GENERAL ELECTRIC CAPITAL CORP ; HARISH SAMEER ; GURUWAIYA JUDY ; PACETTI STEPHEN ; HOSSAINY SYED FA ; ADVANCED CARDIOVASCULAR SYSTEMS INC ; ADVANCED CARDIOVASCULAR SYSTEMS IN ; ABBOTT CARDIOVASCULAR SYSTEMS INC SANTA CLARA ; BHAT VINAYAK D ; CASTRO DANIEL A

Inventor(s): (std): ANTHONY ANDREACCHI ; ASHOK A SHAH ; BHAT VINAYAK ; BHAT VINAYAK D ; CASTRO DANIEL A ; CHEN YUNG MING ; CONSIGNY PAUL ; DARYUSH MIRZAE ; DEBORRA SANDERS MILLARE ; DING NI ; DORIE M HAPP ; DUGAN STEPHEN ; EUGENE T MICHAL ; EVGENIA MANDRUSOV ; FEEZOR CHRISTOPHER ; FONG KEITH ; FONG KEITH E ; FRANCESCO CASTELLI ; GADA MANISH ; GORDON C STEWART ; GURUWAIYA JUDY ; GURUWAIYA JUDY A ; HAPP DORIE ; HAPP DORRIE ; HAPP DORRIE M ; HARISH SAMEER ; ANDREACCHI ANTHONY ; HOSSAINY SYED F A ; HOSSAINY SYED F ; HOSSAINY SYED F ; HOSSAINY SYED F A ; JEFF ROYAL ; JUDY GURUWAIYA ; KEITH FONG ; KRISTEN NANCY ; KURT SCHEINPFLUG ; MANDRUSOV EVAGENIA ; MANDRUSOV EVGENIA ; MANISH GADA ; MARK A WILLIAMS ; MICHAL EUGENE T ; MILLARE DEBORRA SANDERS ; MIRZAE DARYUSH ; NI DING ; PACETTI STEPHEN D ; PARK GENE ; PAUL M CONSIGNY ; ROORDA WOUTER E ; ROYAL JEFF ; SANDERS MILLARE DEBORRA ; SCHEINPFLUG KURT ; SHAH ASHOK A ; STEPHEN D PACETTI ; STEPHEN PACETTI ; STEVEN Z WU ; STEWART GORDON ; STEWART GORDON C ; SYED F ; SYED HOSSAINY ; SYED HOSSAINY FA ; TANG YIWEN ; TY HU ; VINAYAK BHAT ; WILLIAMS MARK ; WILLIAMS MARK A ; WOUTER E ROORDA ; WU STEVEN Z ; ZHANG GINA ; HAPP DORIE M ; CONSIGNY PAUL M ; CHEN LI ; CHEN JIN ; WU STEVEN ; VAN SCIVER JASON ; TANG FUH WEI ; SHAH ASHOK ; ROORDA WOUTER ; PACETTI STEPHEN ; MICHAL EUGENE ; HU TY ; KIRSTEN NANCY ; HOSSAINY SYED FAIYAZ AHMED ;

Inventor(s): DANIEL A CASTRO ; JUDY A GURUWAIYA ; HOSSAINY SYED FREMONT FA ; HOSSAINY SAYED FAIYAZ AHMED ; LI CHEN ; SAMEER HARISH ; FEEZOR CHRISTOPHER SAN JOSE ; DUGAN STEPHEN SAN FRANCISCO ; CONSIGNY PAUL SAN JOSE ; ZHANG GINA TEMECULA ; STEWART GORDON SAN FRANCISCO ; ROORDA WOUTER PALO ALTO ; PARK GENE SANTA ROSA ; KIRSTEN NANCY SAN CARLOS ; WU STEVEN Z HILLSBOROUGH ; VINAYAK D BHAT ; SYED F A HOSSAINY ; HOSSAINY SYED F FREMONT ; HOSSAINY SYED FA ; HOSSAINY SAYED FA ; ANDREACCHI ANTHONY SAN JOSE ; HOSSAINY SAYED ; GADA MANISH SANTA CLARA

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FETHERSTONHAUGH AND CO; MARKS AND CLERK LUXEMBOURG LLP; WUESTHOFF AND WUESTHOFF PATENTANWALTE PARTG MBB; KEEN CELIA MARY; RIZZO SERGIO; DEACONS; CAMERON KERRIGAN SQUIRE SANDERS AND DEMPSEY LLP; PAUL J MEYER JR SQUIRE SANDERS AND DEMPSEY LLP; SQUIRE SANDERS AND DEMPSEY LLP; PAUL J MEYER JR ESQ SQUIRE SANDERS AND DEMPSEY LLP; SQUIRE SANDERS AND DEMPSEY; SQUIRE SANDERS AND DEMPSEY US LLP; SQUIRE SANDERS AND DEMPSEY US LLP; SQUIRE SANDERS (US) LLP; SQUIRE SANDERS US LLP; SQUIRE PATTON BOGGS US LLP; GUSLER GLORIA M ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG UM US UZ VC VN YU ZA ZM ZW

287) Family number: 32449922 (US2005263545A)

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Title: TIME DELAY SOAP DISPENSER

Abstract: A delay mechanism including one or more suction cups which during a normal cycle of dispensing from a liquid dispenser come to engage on a surface and thereby delay the return of an actuating member in the dispenser to a position for further dispensing until such time as the suction cup disengages from the surface.

Classifications:

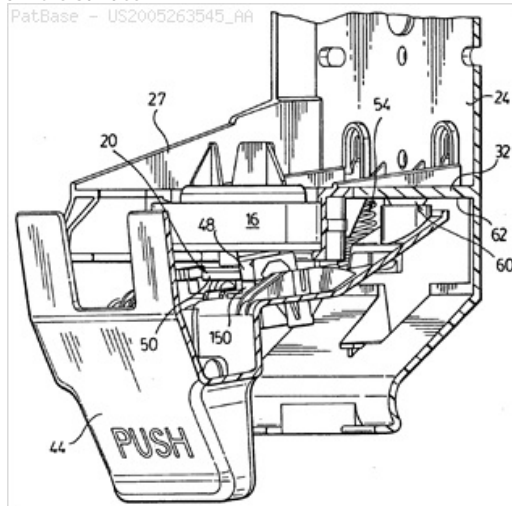
International (ipc 8-9): A47K5/06 A47K5/12 B65D47/00 B67D7/06 G01F11/02 (Advanced/Invention); A47K5/00 B65D47/00 B67D7/06 G01F11/02 (Core/Invention)

International (ipc 1-7): A47K5/06 A47K5/12 B67D5/06

CPC: A47K5/1204 G01F11/025

European: A47K5/12C1 G01F11/02B8

US: 222/181.3 222/181.300 222/477

**Family:**

Publication number	Publication date	Application number	Application date
CA2468367 AA	20051126	CA20042468367	20040526
DE102005024480 A1	20051222	DE200510024480	20050524
US2005263545 AA	20051201	US20050126514	20050511
US7234612 BB	20070626	US20050126514	20050511

Priority:

CA20042468367 20040526

Probable Assignee:

HYGIENE TECHNIK INC

Assignee(s): (std):

HYGIENE TECHNIK INC ; OPHARDT HEINER

Assignee(s):

HYGIENE TECHNIK INC BEAMSVILLE

Inventor(s): (std):

OPHARDT HEINER

Agent(s):

RICHES MCKENZIE AND HERBERT LLP

288) Family number: 59337923 (US2015144650A)

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Title: SYSTEM, METHOD, AND APPARATUS FOR PURCHASING, DISPENSING, OR SAMPLING OF PRODUCTS

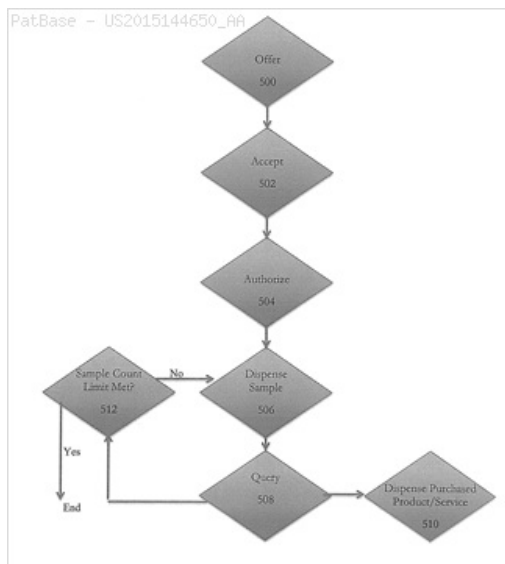
Abstract: Systems, methods, and apparatus for the purchase of and/or free sampling of products. The systems, methods, and/or apparatus may permit push notifications of purchased products and/or free product samples being available and may permit the use of mobile devices and/or mobile device applications to be used to purchase products or dispense free samples of products via a product dispenser or vending machine.

Classifications:

International (ipc 8-9): B67D1/00 B67D1/08 B67D7/14 G06F17/30 G06Q20/18 G06Q20/32 G06Q30/02 G07F11/62 G07F11/72 G07F13/00 G07F13/06 G07F9/02 (Advanced/Invention)

CPC: B67D1/0878 B67D1/0034 G06Q20/32 G06Q30/0281 G07F13/06 G06Q30/0259 G06Q30/0261 G06Q30/0267 G06Q20/18 B67D1/0888 B67D1/0027 G06Q30/0203 G07F9/023 G07F9/026 G07F13/00 G06Q30/0282 G07F11/62 G07F13/065 G06F16/951

US: 222/1 222/135 222/23 222/52



Family:

Publication number	Publication date	Application number	Application date
US2015144650 AA	20150528	US20130087881	20131122
US2015144652 AA	20150528	US20140269741	20140505
US2015144653 AA	20150528	US20140335855	20140718
US2017076266 AA	20170316	US20160360503	20161123
US2017213260 AA	20170727	US20170480464	20170406
US2017349425 AA	20171207	US20170609245	20170531
US2019073648 AA	20190307	US20180179463	20181102
US9527716 BB	20161227	US20140269741	20140505
US9633504 BB	20170425	US20130087881	20131122
US9701530 BB	20170711	US20140335855	20140718
US10121132 BB	20181106	US20160360503	20161123
WO16011372 A2	20160121	WO2015US40939	20150717
WO16011372 A3	20160310	WO2015US40939	20150717

Priority:

US20130087881 20131122	US20140269741 20140505	US20140335855 20140718
US20160360503 20161123	US20170480464 20170406	US20170609245 20170531
US20180179463 20181102		

Probable Assignee: TRANSPARENSEE LLC

Assignee(s): (std): KLINE MICHAEL J ; SALVUCCI DENISE LISA ; TRANSPARENSEE LLC

Inventor(s): (std): KLINE MICHAEL J ; SALVUCCI DENISE LISA

Agent(s): BAKER AND HOSTETLER LLP; ARENA CHRISTOPHER M ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

289) Family number: 67134923 (US2017280960A)

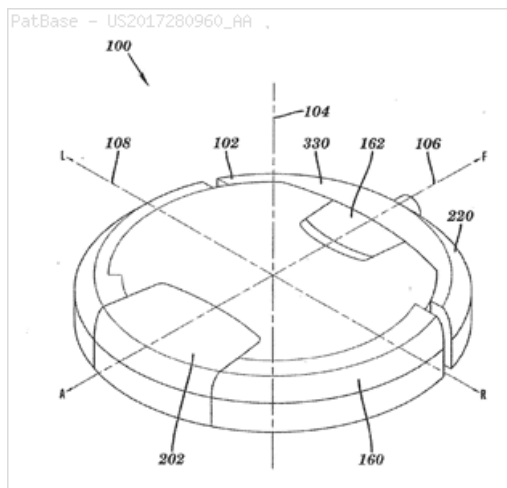
© PatBase

Title: AUTONOMOUS SURFACE CLEANING ROBOT FOR WET AND DRY CLEANING

Abstract: An autonomous floor cleaning robot includes a transport drive and control system arranged for autonomous movement of the robot over a floor for performing cleaning operations. The robot chassis carries a first cleaning zone comprising cleaning elements arranged to suction loose particulates up from the cleaning surface and a second cleaning zone comprising cleaning elements arranged to apply a cleaning fluid onto the surface and to thereafter collect the cleaning fluid up from the surface after it has been used to clean the surface. The robot chassis carries a supply of cleaning fluid and a waste container for storing waste materials collected up from the cleaning surface.

Classifications:

International (IPC 8-9): A47L11/30 A47L11/40 A47L5/14 A47L7/00 A47L9/00 A47L9/10 A47L9/28 B60B33/00 B60B33/02 B60R19/48 F04D29/42 G01M17/00 G05D1/02 (Advanced/Invention); C11D1/62 C11D1/75 (Advanced/Non-invention)
CPC: A47L11/302 A47L5/14 A47L7/0028 A47L7/0038 A47L7/0042 A47L9/009 A47L9/2826 A47L9/2852 A47L9/2857 A47L9/2873 A47L9/2884 A47L9/10 A47L11/4005 A47L11/4011 A47L11/4027 A47L11/4044 A47L11/4061 A47L11/4083 A47L11/4088 A47L11/4066 G05D1/0219 G05D1/0227 G05D1/0272 B60R19/483 A47L2201/022 A47L2201/04 B60B33/0039 A47L9/28 A47L11/40 A47L11/4016 A47L11/4041 A47L11/4069 A47L2201/00 B60B33/001 B60B33/0021 B60B33/0028 B60B33/0049 B60B33/0057 B60B33/0068 B60B33/0073 B60B33/028 C11D1/62 C11D1/75 F04D29/4233 G05D2201/0203 Y10S901/01 Y10S901/40 G05D1/0225



Family:

Publication number	Publication date	Application number	Application date
US2017280960 AA	20171005	US20170626662	20170619
US10213081 BB	20190226	US20170626662	20170619

Priority:

US20050654838P	20050218	US20050133796	20050521	US20050134212	20050521
US20050134213	20050521	US20050207575	20050819	US20050207620	20050819
US20050207574	20050819	US20060359961	20060221	US20110023444	20110208
US20140301454	20140611	US20160238181	20160816	US20170626662	20170619

Probable Assignee: IROBOT CORP

Assignee(s): (std): IROBOT CORP

Inventor(s): (std): GILBERT JR DUANE L ; JONES ANDREW ; MORSE CHRISTOPHER JOHN ; PRATT SCOTT ; SANDIN PAUL E ; ZIEGLER ANDREW ; DUSSAULT SMITH NANCY

Inventor(s): GILBERT JR

Agent(s): FISH AND RICHARDSON PC

290) Family number: 30972923 (US2004182885A)

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Title: DEVICE FOR DISPENSING A MEDIUM SUCH AS A TOOTHPASTE OR A GEL

Abstract: The invention is a device for use by a person to dispense a medium such as a toothpaste or a gel from a disposable container. The device comprises a pump unit having medium and air pistons engaged with medium and air cylinder portions, respectively, thru a compression stroke and an intake stroke. The device further comprises an intake unit engaged with the pump unit. The intake unit comprises an inlet portion engageable with the container. The intake unit further comprises an intake valve operable from a closed position to an open position where the inlet portion is in communication with the medium cylinder portion. The device further comprises an exhaust unit engaged with the pump unit. The exhaust unit comprises a nozzle portion. The exhaust unit further comprises an exhaust medium valve operable from a closed position to an open position where the medium cylinder portion of the pump unit is in communication with the nozzle portion. The exhaust unit further comprises an exhaust air valve operable from a closed position to an open position where the air cylinder portion of the pump unit is in communication with the nozzle portion. The device further comprises an actuation unit engaged with the pump unit. Activation of the actuation unit causes the medium and air pistons to cycle thru a compression and an intake stroke. At steady state operation, the compression stroke of the medium piston causes a portion of the medium to move thru the exhaust medium valve to the nozzle portion and the compression stroke of the air piston causes a portion of the air contained in the air cylinder portion to expand thru the exhaust air valve to the nozzle portion to dispense a consistent and defined amount of medium. The intake stroke of the medium piston causes a portion of the medium contained in the intake unit to be drawn into the medium cylinder portion of the pump unit. The intake stroke of the air piston causes air to be drawn into the air cylinder portion of the pump unit.

Classifications:

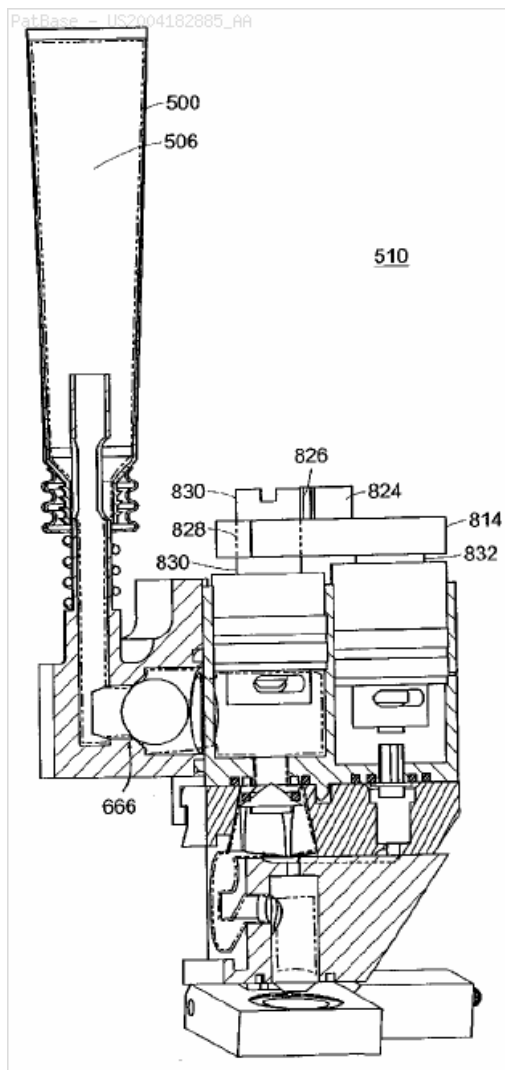
International (IPC 8-9): G01F11/00 G01F11/02 (Advanced/Invention); G01F11/00 G01F11/02 (Core/Invention)

International (IPC 1-7): G01F11/00

CPC: G01F11/02

European: G01F11/02

US: 222/181.3 222/263



Family:

Publication number	Publication date	Application number	Application date
US2004182885 AA	20040923	US20030394900	20030322

Priority:

US20030394900 20030322

Probable Assignee: MORRISON II RAY C

Assignee(s): (std): MORRISON RAY C ; SFERRUZZA GERALD A

Assignee(s): MORRISON II RAY C

Inventor(s): (std): MORRISON RAY C ; SFERRUZZA GERALD A

291) Family number: 8565925 (US5445288A)

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Title: LIQUID DISPENSER FOR DISPENSING FOAM

Abstract: There is disclosed a foaming device for dispensing foam. The device includes a collapsible liquid container and a foam pump attached to the container outlet. The foam pump includes two enclosures, the first being bonded in the throat of the container and the second being telescopically received in the first. When assembled, the two enclosures define an air chamber and a fluid chamber each having outlets which merge by the foamer outlet. The fluid chamber accepts liquid from the container and when the second member is moved with respect to the first member the fluid chamber is pressurized to open an outlet valve and air is simultaneously expelled through the outlet. The liquid and air commingle as they pass through a wire, plastic or fabric mesh thereby forming the foam. There is included a dispenser housing for releasibly receiving the collapsible liquid container and foam pump. The dispenser includes a push button pivotally attached thereto which is coupled to the second enclosure so that as the push button is moved the pump is actuated.

Classifications:

International (IPC 8-9): B05B11/00 B05B11/06 B05B7/00
B05B7/02 (Advanced/Invention);

B05B11/06 B05B7/02 (Advanced/Non-invention);

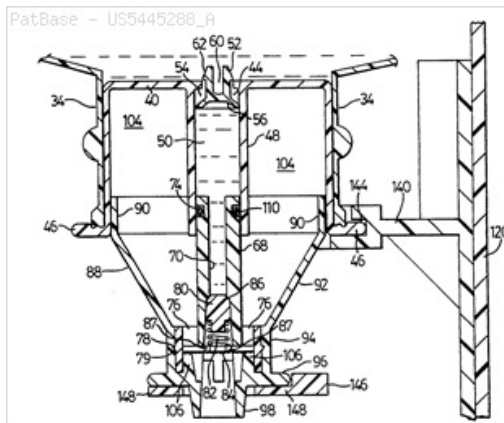
B05B11/00 B05B11/06 B05B7/00 B05B7/02 (Core/Invention)

International (IPC 1-7): B05B11/00 B05B11/06 B05B7/00 B05B7/02
B65D35/28

CPC: A47K5/14 B05B11/3087 B05B7/0025 B05B11/00412

European: B05B11/00E B05B11/30L B05B7/00C1 L05B11/00B5A2

US: 222/105 222/181.2 222/189.06 222/190 222/321.6 222/321.7
222/325 222/340 222/383 222/383.3 222/95 239/343 239/371

**Family:**

Publication number	Publication date	Application number	Application date
AT174816 E	1990115	AT19950917839T	19950403
AU199524017 A1	19951023	AU19950024017	19950403
AU705591 B2	19990527	AU19950024017	19950403
CA2164341 AA	19951201	CA19952164341	19950403
CA2164341 C	20011120	CA19952164341	19950403
DE69506819 D1	19990204	DE19956006819	19950403
DE69506819 T2	19990520	DE19956006819T	19950403
DK0703831 T3	19990823	DK19950917839T	19950403
EP0703831 A1	19960403	EP19950917839	19950403
EP0703831 B1	19981223	EP19950917839	19950403
ES2127526 T3	19990416	ES19950917839T	19950403
JP3848362 B2	20061122	JP19950525320T	19950403
JP9503161 T2	19970331	JP19950525320T	19950403
US5445288 A	19950829	US19940223148	19940405
WO9526831 A1	19951012	WO1995CA00175	19950403

Priority:

US19940223148 19940405 WO1995CA00175 19950403

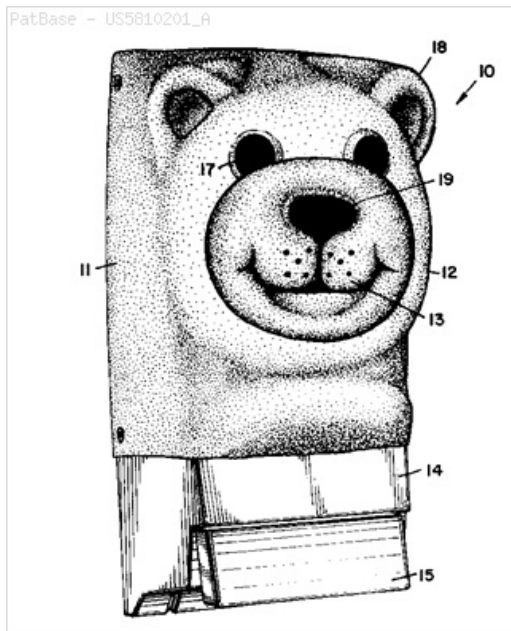
Probable Assignee: DEB IP LTD**Assignee(s):** (std): BANKS STEWART ; DEP IP LTD ; SPRINTVEST CORP NV**Assignee(s):** SPRINTVEST INT CORP NV ; SPRINTVEST N V CORP ; SPRINTVEST CORP N V PISCADERA BAY CURACAO AN ; SPRINTVEST CORP N V ; DEB IP LTD**Inventor(s):** (std): BANKS STEWART**Inventor(s):** STEWART BANKS ; BANKS STEWART BRANTFORD ONTARIO N3V 1C1 CA**Agent(s):** PATENT ATTORNEY SERVICES; HILL AND SCHUMACHER**Designated states:** AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TT UA UG UZ VN**292) Family number: 11027926 (US5810201A)**

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Title: Interactive dispenser for personal use chemical or personal care chemical that provides a message prompted by user proximity

Abstract: An interactive dispenser, used to provide a powdered, liquid or personal use or care chemical, can provide a message prompted by the proximity of a user to a sensor. Personal care liquids can include hand cleaners, hand and body lotion, sun blocks, sun screens, poison ivy treatment materials, burn ointments, body powders, solid hand soap bars, etc. A variety of messages can be provided to the user including a reminder to use the materials provided by the dispenser, instructional information, safety information, use directions for the chemical, use directions for the dispenser, or any other message. The message can be provided in a visual message such as an electronic scroll, an aural message derived from an electronic voice synthesizer. Such a message can be combined with a musical program, other light displays, etc. The sensor can be mounted on the dispenser in the form of a push button, an actuator triggered by the installation of new chemical, can be a motion sensor detecting the presence of a user, can be a remote sensor sensing the presence of a user at a remote site from the dispenser, involving the use of equipment used in conjunction with the dispenser such as a urinal, toilet, bathroom sink, etc. The overall purpose of coupling a user proximity generated prompt to generating a message is the improved efficacy of use of the dispenser or its chemical contents.

Classifications:**International (IPC 8-9):** A47K5/12 B67D99/00 (Advanced/Invention); A47K5/00 B67D99/00 (Core/Invention)**International (IPC 1-7):** A47K5/12 B67D5/00 B67D5/32 G10L3/00**CPC:** A47K5/1217**European:** A47K5/12E**US:** 222/39 222/52 222/78

**Family:**

Publication number	Publication date	Application number	Application date
AU199732245 A1	19980210	AU19970032245	19970529
AU712348 B2	19991104	AU19970032245	19970529
BRPI9710731 A	19990817	BR1997PI10731	19970529
CA2261066 AA	19990114	CA19972261066	19970529
CA2261066 C	20030617	CA19972261066	19970529
DE69701192 D1	20000224	DE19976001192	19970529
DE69701192 T2	20000928	DE19976001192T	19970529
EP0914055 A1	19990512	EP19970927898	19970529
EP0914055 B1	20000119	EP19970927898	19970529
JP2000515462 T2	20001121	JP19980506913T	19970529
JP3614441 B2	20050126	JP19980506913T	19970529
US5810201 A	19980922	US19960681264	19960722
WO9803107 A1	19980129	WO1997US09415	19970529
ZA9705112 A	19981210	ZA19970005112	19970610

Priority:

US19960681264 19960722 WO1997US09415 19970529

Probable Assignee: ECOLAB INC

Assignee(s): (std): ECOLAB INC

Assignee(s): ECOLAB INC SAINT PAUL ; HEINZEN THOMAS E ; KLOS TERRY J ; LOKKESMOE KEITH D ; TARARA JAMES J ; ROLANDO JOHN J ; BESSE MICHAEL E

Inventor(s): (std): BESSE E ; HEINZEN E ; HEINZEN THOMAS E ; HEINZEN THOMAS F ; ROLAND JOHN J ; ROLANDO J ; ROLANDO JOHN J ; TARARA J ; TARARA JAMES J ; KLOS J ; KLOS TERRY J ; LOKKESMOE D ; LOKKESMOE KEITH D ; BESSE MICHAEL E

Inventor(s): MICHAEL E BESSE ; TERRY J KLOS ; THOMAS E HEINZEN ; THOMAS F HEINZEN ; JAMES J TARARA ; JOHN J ROLAND ; JOHN J ROLANDO ; KEITH D LOKKESMOE

Agent(s): GRIFFITH HACK; CASSAN MACLEAN

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LV MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG UZ VN YU

293) Family number: 70852929 (US2018237172A)

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Title: METHODS OF MAKING FLEXIBLE CONTAINERS WITH STRUCTURAL SUPPORT FRAMES

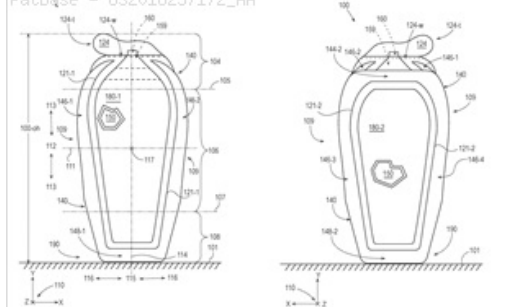
Abstract: Methods of making flexible containers that include structural support frames, including methods for sealing such containers.

Classifications:

International (IPC 8-9): B23K26/38 B29C65/00 B29C65/20 B32B27/08 B32B27/30 B32B27/32 B32B27/34 B65B1/02 B65B3/02 B65B31/00 B65B39/12 B65B51/14 B65B61/00 B65B61/02 B65B61/06 B65B61/18 B65B7/02 B65B9/087 B65B9/093 B65D75/00 B65D75/58 (Advanced/Invention)

CPC: B65B1/02 B29K2023/0633 B29C66/851 B29C66/72341 B32B27/08 B32B27/32 B32B27/34 B32B27/306 B29C65/20 B29C66/43 B29C66/1122 B29C66/71 B65B7/02 B23K26/38 B65D75/008 B29K2023/086 B29K2077/00 B29K2995/0067 B29L2031/712 B32B2250/03 B32B2307/7242 B32B2439/70 B65B3/02 B65B9/087 B65B9/093 B65B31/006 B65B39/12 B65B51/146 B65B61/005 B65B61/02 B65B61/06 B65B61/18 B65D75/5811

PatBase - US2018237172_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2018237172 AA	20180823	US20180881816	20180129
WO18156309 A1	20180830	WO2018US15636	20180129

Priority:

US20170461880P 20170222 US20180881816 20180129

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): BOURGEOIS MARC ; BOURGEOIS MARC RICHARD ; CLARE BENJAMIN ; CLARE BENJAMIN JACOB ; ISHIHARA TADAYOSHI ; LESTER JOSEPH ; LESTER JOSEPH CRAIG

Agent(s): KREBS JAY A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

294) Family number: 63294931 (US2016243570A)

© PatBase

Title: ELECTRIC TANK DISPENSER HAVING A PRESSURIZABLE SPACE AND SELECTABLE PRESSURE LEVELS

Abstract: This invention relates to a device for dispensing spray drops or foam. A first illustrative example of the invention is an electrically powered dispenser comprising: a pressurization system for automatically regulating a pressure level of a gas in a pressurizable space, the pressurization system being configured: to take a pressure reading of the gas, to make a determination if the pressure reading indicates a deviation from a desired pressure level, and based on the determination to make a decision selected from a list comprising at least the following: to start pressurization, to continue pressurization, to stop pressurization, or to do nothing. According to variations or refinements of this first example the pressurization system is sufficiently sensitive to indicate the deviation even if the deviation is minimal. According to other variations or refinements of this first example, the desired pressure level can be, e.g., less than 10 psi.

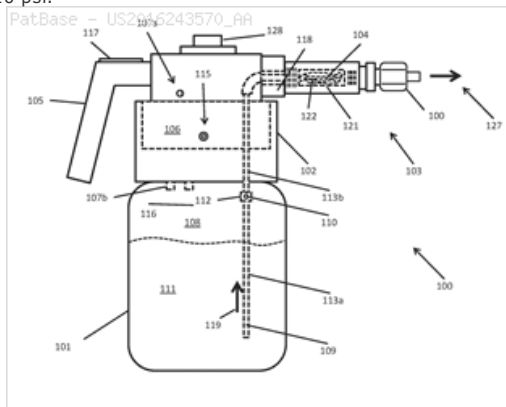
Classifications:

International (IPC 8-9): B05B1/30 B05B12/08 B05B15/06

B05B7/24 (Advanced/Invention)

CPC: B05B12/087 B05B1/30 B05B7/2494

US: 239/373



Family:

Publication number	Publication date	Application number	Application date
US2016243570 AA	20160825	US20160018013	20160208

Priority:

US20150115684P 20150213 US20150240323P 20151012 US20150262814P 20151203
US20160018013 20160208

Probable Assignee: GREEN SHOOTS LLC

Assignee(s): (std): GREEN SHOOTS LLC ; LAMPE JOHN KARL ; WAHLSTROM JASON LEE

Inventor(s): (std): LAMPE JOHN KARL ; WAHLSTROM JASON LEE

295) Family number: 15590932 (US5490938A)

© PatBase

Title: LIQUID DISPENSER FOR STERILE SOLUTIONS

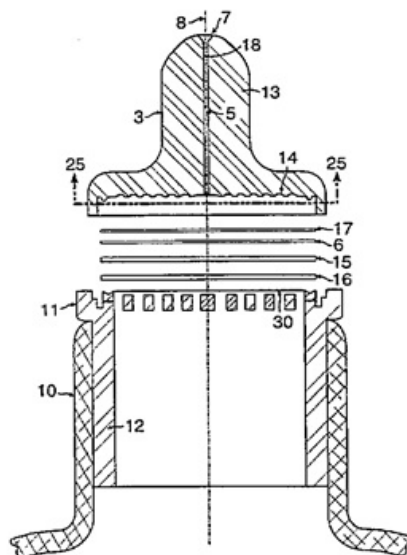
Abstract: A liquid dispenser for dispensing sterile liquid comprising a container for storing the sterile liquid, a nozzle assembly mounted on the container, and a filter which has at least one surface and a plurality of its pores coated with a metallic material, e.g., a metal or metal oxide or metal salt, that is bacteriostatic or bacteriocidal, is described. The metal coated filter, methods for coating the filter, and methods for using the liquid dispenser are also provided.

Classifications:

International (IPC 8-9): A01N25/10 A01N25/24 A01N25/34
A01N47/44 A01N59/16 A01N59/20 A01P3/00 A61J1/05 A61J1/14
A61J1/20 A61L2/16 A61L27/00 A61L29/00 A61L33/00 B01D39/00
B01D39/16 B01D39/20 B01D67/00 B01D69/02 B01D69/12
B01D71/02 B65D83/00 (Advanced/Invention);
A01N25/10 A61J1/05 A61L27/00 A61L29/00 A61L33/00
B65D83/00 (Advanced/Non-invention);
A01N25/10 A01N25/24 A01N25/34 A01N47/44 A01N59/16 A61J1/14
A61L2/16 A61L27/00 A61L29/00 A61L33/00 B01D39/00 B01D39/16
B01D39/20 B01D67/00 B01D69/00 B01D71/00 (Core/Invention);
A61L2/16 (Core/Non-invention)
International (IPC 1-7): A01N25/08 A01N25/10 A01N25/24
A01N25/32 A01N47/44 A01N59/16 A61B19/00 A61J1/05 A61J1/14
A61L2/16 A61L27/00 B01D39/00 B01D61/00 B65D83/00 B67D5/58

CPC: B01D39/2037 B01D2239/086 B01D39/1692 B01D67/0079
B01D69/148 B01D2323/02 B01D2323/04 B01D2325/38 B82Y30/00
B01D2325/48 B01D67/0069 B01D67/0072 B05B11/047 B65D47/18
B65D81/24 B01D39/1615 B01D39/1623 B01D39/2027 B01D39/2055
B01D2239/0442 B01D2239/0478 B01D39/00 A01N25/24 A01N25/34
A01N47/44 A01N59/16 A61L2/16 B01D39/16 B01D67/0088
B01D67/009 B01D69/02 B01D69/12 B01D69/141 B01D71/022
B01D2239/0471 B01D2323/12 A61J1/145 A61J1/1456 A61J1/1468
European: A01N25/24 A01N25/34 A01N47/44 A01N59/16 A61L2/16
B01D39/00 B01D39/16 B01D39/16B2 B01D39/16B4 B01D39/16K
B01D39/20D B01D39/20D2D B01D39/20F B01D67/00J14
B01D67/00J16 B01D67/00M22 B01D67/00M24 B01D67/00P
B01D67/00R14 B01D67/00R16 B01D69/02 B01D69/12 B01D69/14B
B01D69/14B16 B01D71/02M B05B11/04E B65D47/18 B82Y30/00
K61J1/14F2 K61J1/14F4 K61J1/14M L01D239/04H L01D239/04P
L01D239/04P2 L01D239/08D L01D323/02 L01D323/04 L01D323/12
L01D325/38 L01D71/02M L65D81/24 L82T201/01T
US: 210/321.84 210/473 210/474 210/490 210/500.25 210/500.27
210/506 210/650 210/651 222/420 424/404 424/405 424/406
424/407 424/409 424/411 424/413 424/421 424/422 424/612
424/617 424/618 424/630 424/78.08 424/78.09 424/78.17 424/78.26
424/78.34 424/78.35 514/495 514/499 514/634 514/635 523/122
574/492 574/495 574/634 574/635 600/466 600/467 604/264
604/265 604/406 604/508

PatBase - US5490938_A



Family:

Publication number	Publication date	Application number	Application date
AT184780 E	19991015	AT19940906664T	19941219
AT465636 E	20100515	AT19970913782T	19971028
AU199515154 A1	19950710	AU19950015154	19941219
AU199850888 A1	19980522	AU19980050888	19971028
AU692220 B2	19980604	AU19950015154	19941219
AU723898 B2	20000907	AU19980050888	19971028
CA2270258 AA	19990428	CA19972270258	19971028
CA2270258 C	20091215	CA19972270258	19971028
DE69420862 D1	19991028	DE19946020862	19941219
DE69420862 T2	20000518	DE19946020862T	19941219
DE69739866 D1	20100610	DE19976039866	19971028
EP0735852 A1	19961009	EP19950906664	19941219
EP0735852 B1	19990922	EP19950906664	19941219
EP0891712 A1	19990120	EP19980115331	19941219
EP0939591 A1	19990908	EP19970913782	19971028
EP0939591 B1	20100428	EP19970913782	19971028
JP2001508041 T2	20010619	JP19980520645T	19971028
JP3860207 B2	20061220	JP19950517543T	19941219
JP9510629 T2	19971028	JP19950517543T	19941219
TW381029 B	20000201	TW19980106497	19980428
US5490938 A	19960213	US19930170510	19931220
US5681468 A	19971028	US19960599810	19960212
US5817325 A	19981006	US19960742580	19961028
US5849311 A	19981215	US19960736823	19961028
US5869073 A	19990209	US19960663269	19961213
US6030632 A	20000229	US19980151866	19980911
US6126931 A	20001003	US19980151495	19980911
US6264936 BA	20010724	US19980151878	19980911
US7288264 BA	20071030	US20000617566	20000717
WO9517152 A1	19950629	WO1994US14636	19941219
WO9818330 A1	19980507	WO1997US19369	19971028

Priority:

US19930170510	19931220	US19940220821	19940331	EP19950906664	19941219
WO1994US14636	19941219	US19960599810	19960212	US19960736823	19961028
US19960742580	19961028	US19960663269	19961213	WO1994US14636	19961213
WO1997US19369	19971028	US19980151866	19980911	US19980151878	19980911
US19980151495	19980911	US20000617566	20000717		

Probable Assignee: SURFACINE DEVELOPMENT CO LLC

Assignee(s): (std): BIOPOLYMERIX INC ; SAWAN SAMUEL P ; SHALON TADMOR ; SUBRAMANYAM SUNDAR ; BIOPOLYMERIX INC C O BIOCOMPAT ; SURFACINE CONSUMER PRODUCTS LL ; SURFACINE DEV COMPANY L L C ; SURFACINE DEV COMPANY LLC ; SURFACINE R CONSUMER PRODUCTS ; SURFACINE DEV CO ; SURFACINE DEV CO LLC ; SURFACINE DEV CO INC ; SURFACINE CONSUMER PRODUCTS ; SURFACINE DEV COMPANY INC ; BIOPOLYMERIX AND SURFACINE DEV ; SURFACINE DEVELOPMENT CO LLC ; SURFACINE DEV CO L L C ; YURKOVETSKIY ALEXANDER

Assignee(s): SURFACINE R CONSUMER PRODUCTSUS ; BIOPOLYMERIX AND SURFACINE DEVELOPMENT CO ; BIOPOLYMERIX AND SURFACINE DEVELOPMENT COMPANY ; SURFACINE DEVELOPMENT COMPANY LLC ; SURFACINE R CONSUMER PRODUCTS LLC ; SURFACINE DEVELOPMENT COMPANY L L C ; SURFACINE DEVELOPMENT CO INC ; SURFACINE CONSUMER PRODUCTS LLC ONE INDUSTRIAL WAY ; SURFACINE DEVELOPMENT CO ; SURFACINE CONSUMER PRODUCTS LLC ; SURFACINE DEVELOPMENT COMPANY INC ; BIOPOLYMERIX INC C O BIOCOMPATIBLES LTD ; NATIONAL INST ; NATIONAL INSTITUTES OF HEALTH ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALT ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT

Inventor(s): (std): ALEXANDER YURKOVETSKIY ; SAMUEL P SAWAN ; SAWAN SAMUEL ; SAWAN SAMUEL P ; SUNDAR SUBRAMANYAN ; TADMOR SHALON ; YURKOVETSKIY ALEXANDER ; SUBRAMANYAM SUNDAR ; SHALON TADMOR ; SUBRAMANYAN SUNDAR

Inventor(s): SUNDAR SUBRAMANYAM
Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MBM INTELLECTUAL PROPERTY LAW LLP; PRICE VINCENT ANDREW; DARBY AND DARBY PC; LYDIA G
Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG US UZ VN YU ZW

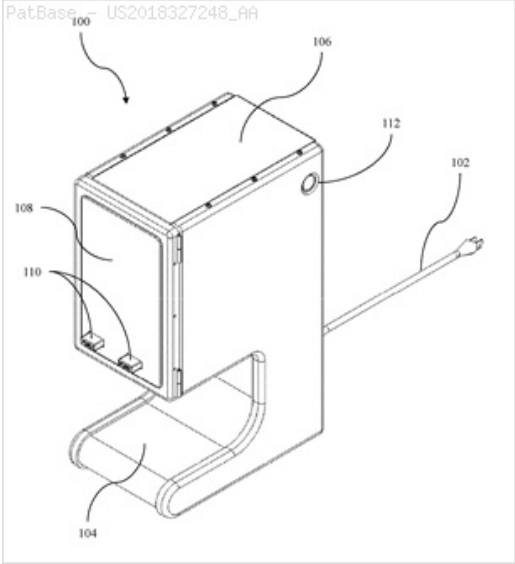
296) Family number: 71884940 (US2018327248A) © PatBase

Title: GRAVITY FED VISCOUS LIQUID AND FOOD PRODUCT DISPENSING SYSTEM

Abstract: A liquid and semi-liquid product dispenser that achieves high product extraction rates by using a product bottle that slopes downwards towards the feed valve when the bottle is placed for dispensing. This includes a long sloped portion that extends downwards from the rear of the bottle to the front of the bottle, and a curved and sloped portion proximate to the valve. These slopes feed product to the valve under the force of gravity when it is opened, and are able to achieve high extraction rates without active pumping systems or mechanical press systems. Installation of product bottles is simplified by an interior design of the dispenser case that mirrors the bottles contours and ensures that the bottle is positioned for use when placed. Installation is also simplified in that connection of pumps or placement of press systems is not required.

Classifications:

International (IPC 8-9): B67D3/00 B67D3/04 (Advanced/Invention)
CPC: B67D3/0032 B67D3/045 B67D3/0022 A47K5/1214 B67D3/00 B65D77/067 B67D3/0029 B67D3/0067



Family:

Publication number	Publication date	Application number	Application date
US2018327248 AA	20181115	US20180975248	20180509

Priority:

US20170504686P 20170511 US20180975248 20180509

Probable Assignee:

GRABAS LTD

Assignee(s): (std):

GRABAS LTD

Inventor(s): (std):

GRAUSE JR MICHAEL J

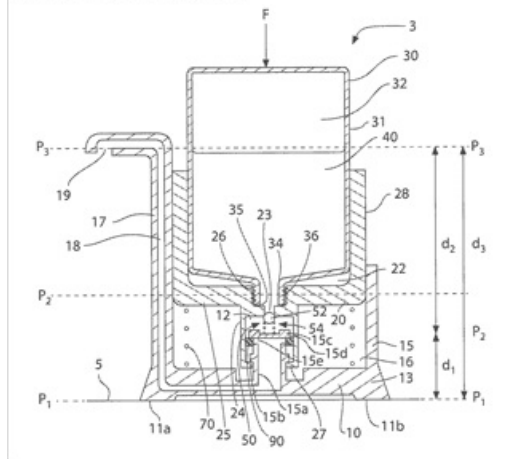
297) Family number: 58499943 (US2016183739A) © PatBase

Title: DISPENSER FOR DISPENSING A FLOWABLE SUBSTANCE

Abstract: Disclosed is a dispenser for dispensing a flowable substance, comprising: a base having at least one contact portion lying in a first plane for stably standing the dispenser on a horizontal support surface; a holder movably connected to the base and lying in a second plane parallel to the first plane, the holder being for holding, in an inverted state, a container defining a chamber storing a flowable substance; and a conduit fluidly connecting the chamber with a discharge opening; wherein the holder is movable relative to the base to cause the flowable substance to be pumped from the chamber towards the discharge opening.

Classifications:

International (IPC 8-9): A47K5/12 A47K5/13
B05B11/00 (Advanced/Invention)
CPC: B05B11/3002 A47K5/1211 A47K5/1202 B05B11/0059
B05B11/3022
US: 222/173

**Family:**

Publication number	Publication date	Application number	Application date
AR097299 AA	20160302	AR2014P103001	20140808
BR112016001944 A2	20170801	BR20161101944	20130808
DE602013020640 D1	20170614	DE201360020640T	20130808
EP3030123 A1	20160615	EP20130750809	20130808
EP3030123 B1	20170503	EP20130750809	20130808
MX2016001471 A1	20161110	MX20160001471	20130808
US2016183739 AA	20160630	US20130908779	20130808
WO15020657 A1	20150212	WO2013US54117	20130808

Priority:

EP20130750809 20130808 US20130908779 20130808 WO2013US54117 20130808

Probable Assignee: COLGATE PALMOLIVE CO

Assignee(s): (std): COLGATE PALMOLIVE CO

Assignee(s): COLGATE PALMOLIVE CO NEW YORK

Inventor(s): (std): CRAWFORD JOHN C ; JOHN C CRAWFORD ; JOHN CRAWFORD

Inventor(s): CRAWFORD JOHN C MAHOPAC

Agent(s): SCHICKER SILVIA; CHUNG JUDY W

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

298) Family number: 32610945 (US2006027482A)

© PatBase

Title: JUMPER CABLE BAG

Abstract: Jumper cable bag with wordage on it so that it can double as a sign to request a jump start.

Classifications:

International (IPC 8-9): B65D85/00 B65H55/00 (Advanced/Invention);

B65D85/00 B65H55/00 (Core/Invention)

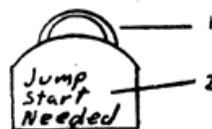
CPC: A45C13/08 B65H75/362 G09F21/04 G09F23/02

European: B65H75/36B G09F21/04 G09F23/02 K45C13/08

US: 206/388 206/388S 206/459.5 206/459.500S 206/702

PatBase - US2006027482_AA

Jumper Cable Bag That
Doubles As A Sign To
Request A Jump Start

**Family:**

Publication number	Publication date	Application number	Application date
US2006027482 AA	20060209	US20040910517	20040803

Priority:

US20040910517 20040803

Probable Assignee: PEARSON DAVID A

Assignee(s): (std): PEARSON DAVID A

Inventor(s): (std): PEARSON DAVID A

Inventor(s): PEARSON DAVID ANDREW ; PEARSON DAVID

Agent(s): DAVID PEARSON

Title: SYSTEM, DEVICE, AND METHOD OF MIXING AND DISPENSING BEVERAGES

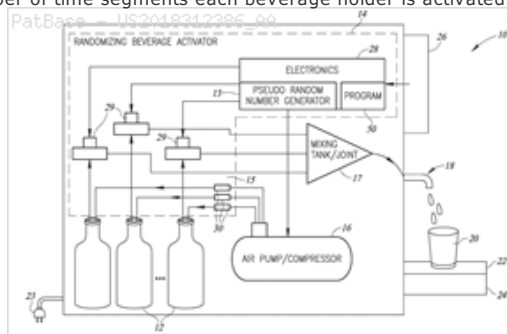
Abstract: A machine for mixing and dispensing beverages includes a single manifold and a randomizing beverage activator. The manifold connects a set of upright beverage holders, each holding a different, already prepared beverage, to a dispensing outlet. The activator dispenses at least two beverages from the set of the beverage holders by randomizing an attribute of a drink. The attribute is chosen from an amount of the beverages and the beverage holders. Modified caps can be used for the beverage holders. The activator determines a dispensing ratio for beverages and converts the dispensing ratio to a dispensing time per beverage holder. The ratio defines the number of time segments each beverage holder is activated.

Classifications:

International (IPC 8-9): B65D47/12 B67D1/00 (Advanced/Invention)

CPC: B67D1/0034 B65D47/12 B67D2001/0481 B67D2001/0098

B67D1/0051 B67D1/07 B67D2001/0812

**Family:**

Publication number	Publication date	Application number	Application date
US2018312386 AA	20181101	US20180965928	20180429

Priority:

US20170491277P 20170428 US20180965928 20180429

Probable Assignee: BRUN KESTLER AVRAHAM NACHUM

Assignee(s): (std): BRUN KESTLER AVRAHAM NACHUM ; BRUN KESTLER GRETA PAULINE ; BRUN KESTLER MECHAE YIRMEYAHU ; SIRIANNI MARY KATE

Inventor(s): (std): BRUN KESTLER AVRAHAM NACHUM ; BRUN KESTLER GRETA PAULINE ; BRUN KESTLER MECHAE YIRMEYAHU ; SIRIANNI MARY KATE

300) Family number: 34278949 (US2007068393A)

Title: MACHINE FOR BREWING A BEVERAGE SUCH AS COFFEE AND RELATED METHOD

Abstract: An embodiment of a machine for brewing a beverage such as coffee includes a chamber and a piston assembly disposed in the chamber. The chamber is operable to receive a liquid such as water and a flavor base such as ground coffee, and to allow the beverage to brew from a mixture of the liquid and the base. The piston assembly is operable to filter a solid such as spent coffee grounds from the brewed beverage by moving in a first direction, and to force the filtered beverage out of the chamber by moving in a second direction. By modifying or automating some or all steps of the French press brewing technique, such a machine may control one or more of the brewing parameters with a level of precision that yields brewed coffee having a uniform taste from cup to cup. Furthermore, such a machine may brew the coffee with a speed that renders the machine suitable for use by establishments that serve significant amounts of coffee.

Classifications:

International (IPC 8-9): A23F5/00 A23F5/26 A47J A47J31/00 A47J31/06 A47J31/18 A47J31/20 A47J31/24 A47J31/32 A47J31/36 A47J31/40 A47J31/42 A47J31/44 A47J31/46 A47J31/56 (Advanced/Invention);

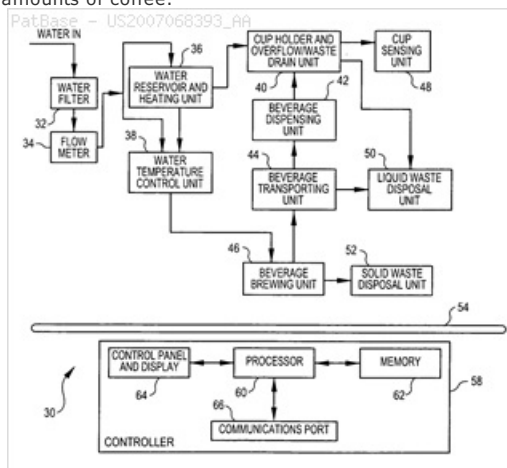
A23F5/00 A47J31/20 A47J31/40 (Advanced/Non-invention); A23F5/00 A47J31/00 A47J31/06 A47J31/24 A47J31/40 A47J31/42 A47J31/44 (Core/Invention); A47J (Subclass/Invention)

International (IPC 1-7): A47J31/20

CPC: A23F5/262 A47J31/462 A47J31/36 A47J31/007 A47J31/42 A47J31/20 A47J31/40

European: A47J31/00R A47J31/20 A47J31/40 A47J31/40A A47J31/40C A47J31/40G A47J31/42

US: 1/1 426/231 426/425 426/431 426/435 99/279 99/279P 99/281 99/281P 99/283 99/285 99/286 99/287 99/288 99/288S 99/289R 99/290 99/290P 99/291 99/297 99/299 99/299S 99/302P

**Family:**

Publication number	Publication date	Application number	Application date
AT532440 E	20111115	AT20060815110T	20060920
AU2006292152 AA	20070329	AU20060292152	20060920
AU2006292152 BB	20110428	AU20060292152	20060920
AU2006292152 BH	20110901	AU20060292152	20060920
BRPI0616092 A2	20110607	BR2006PI16092	20060920
CA2627328 AA	20080424	CA20062627328	20060920
CA2627328 C	20140617	CA20062627328	20060920
CN101641039 A	20100203	CN200680043290	20060920
CN101641039 B	20121024	CN200680043290	20060920

DE602006025777 D1	20120119	DE200660025777T	20060920
EP1940268 A2	20080709	EP20060815110	20060920
EP1940268 B1	20111109	EP20060815110	20060920
ES2375550 T3	20120301	ES20060815110T	20060920
HK1125008 A1	20120831	HK20090100026	20090102
HK1125008 A1	20090731	HK20090100026	20090102
HK1125008 B	20120831	HK20090100026	20090102
IN03288DN2008 A	20080725	IN2008DN03288	20080421
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JP2009525056 T2	20090709	JP20080531451T	20060920
JP5044558 B2	20121010	JP20080531451T	20060920
KR101176835 B1	20120827	KR20087009432	20060920
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RU2387360 C2	20100427	RU20080115433	20060920
US2007068393 AA	20070329	US20060525251	20060920
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US2010154645 AA	20100624	US20100718413	20100305
US2011088560 AA	20110421	US20100976663	20101222
US2013156904 AA	20130620	US20130764395	20130211
US2014106042 AA	20140417	US20130137863	20131220
US2015157039 AA	20150611	US20140451329	20140804
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US8621982 BB	20140107	US20130764395	20130211
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WO07027206 A3	20070913	WO2006US13930	20060411
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WO07035877 A3	20091008	WO2006US36844	20060920

Priority:

US20050670955P	20050411	US20050719069	20050920	US20050719069P	20050920
US20060790417P	20060406	US20060670955P	20060411	WO2006US13930	20060411
EP20060815110	20060920	US20060525251	20060920	WO2006US36844	20060920
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US20130764395	20130211	US20130137863	20131220	US20140451329	20140804

Probable Assignee: STARBUCKS CORP

Assignee(s): (std): SHAY BRIAN ; HULETT RANDY ; KOLLER IZAAK ; NOSLER ZANDER ; WYER JORAH ; STARBUCKS CORP ; COFFEE EQUIPMENT CO US ; ALLISON JEFF ; BAUM MICHAEL ; BAUM MIKE ; COFFEE EQUIPMENT CO ; STARBAKS CORP

Assignee(s): COFFEE EQUIPMENT CO A WHOLLY OWNED SUBSIDIARY OF STARBUCKS CORPORATION ; STARBUCKS D B A STARBUCKS COFFEE CO CORP ; STARBUCKS SEATTLE CORP ; COFFEE EQUIPMENT CO (A WHOLLY OWNED SUBSIDIARY OF STARBUCKS CORPORATION) ; COFFEE EQUIPMENT CO A WHOLLY OWNED SUBSIDIARY OF S ; COFFEE EQUIPMENT CO A WHOLLY OWNED SUBSIDIARY OF STARBUCKS CORP ; STARBAKS KORPOREJSHN

Inventor(s): (std): ALLISON JEFF ; BAUM MAJKL ; BAUM MICHAEL ; BAUM MIKE ; BRIAN SHAY ; HULETT RANDY ; IZAAK KOLLER ; KH JULETT REHNDI ; KOLLER IZAAK ; NOUZLER ZANDER ; RANDY HULETT ; SHAY BRIAN ; MICHAEL BAUM ; NOSLER ZANDER ; SHEJ BRAJAN ; WYER JORAH ; ZANDER NOSLER

Inventor(s): NOSLER ZANDER SEATTLE ; SHAY BRIAN SEATTLE ; KOLLER IZAAK SEATTLE ; KH'JULETT REHNDI ; HULETT RANDY SEATTLE ; BAUM MICHAEL SEATTLE

Agent(s): MINTER ELLISON; MALLESONS STEPHEN JAUQUES; KING AND WOOD MALLESONS; GOWLING LAFLEUR HENDERSON LLP; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; BENTZ JEAN PAUL ET AL; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; SIMMONS AND SIMMONS; NISHIURA TSUGUHARU; GRAYBEAL JACKSON HALEY LLP; KNOBBE MARTENS OLSON AND BEAR LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

301) Family number: 41801957 (US2008290661A)

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Title: ADAPTER TUBE ARRANGEMENT FOR STRENGTHENING PIPE CONNECTION

Abstract: An adapter tube for strengthening pipe connections between a supply pipe and an apparatus mounted to the supply pipe having a first outwardly tapered section, a second inwardly tapered section and a threaded female adapter wherein when the adapter is threadably secured to a supply pipe a frictional fit between the supply pipe and adapter is created. An O-ring may also be provided on the first tapered section which is modified to have a steeper angle to improve the water tightness of the device.

Classifications:

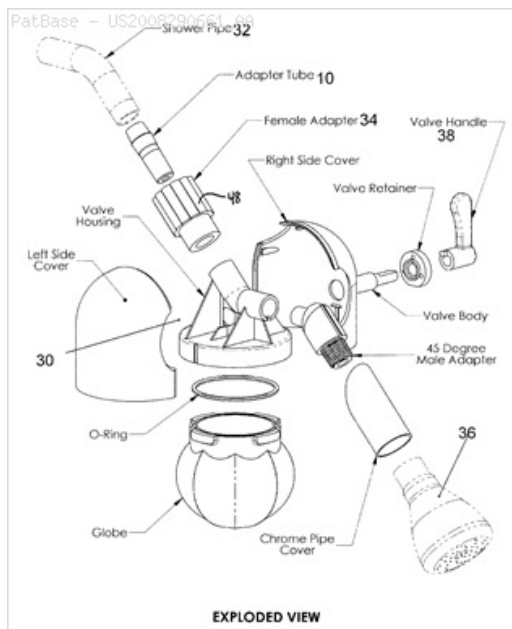
International (IPC 8-9): B05B7/24 B05B7/26 E03C1/046 F16K51/00 F16L21/00 (Advanced/Invention);

B05B7/24 E03C1/04 F16K51/00 F16L21/00 (Core/Invention)

CPC: B05B1/18 B05B7/2462 E03C1/046 B05B7/2443 E03C1/021

European: B05B7/24A4R E03C1/02B E03C1/046 L05B1/18 L05B7/24A6

US: 239/310 251/366 285/397



Family:

Publication number	Publication date	Application number	Application date
US2008290661 AA	20081127	US20070936469	20071107
US2008302885 AA	20081211	US20070936584	20071107
US2008302995 AA	20081211	US20070936661	20071107
WO08058215 A2	20080515	WO2007US83988	20071107
WO08058215 A3	20081009	WO2007US83988	20071107

Priority:

US20060857291P 20061107	US20060864733P 20061107	US20060864743P 20061107
US20070936469 20071107	US20070936584 20071107	US20070936661 20071107

Probable Assignee: O BRIEN PAUL W

Assignee(s): (std): O BRIEN PAUL W

Inventor(s): (std): O BRIEN PAUL W

Agent(s): CHARLES A WILKINSON ESQ; WILKINSON CLINTON H ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

302) Family number: 42459960 (US2008274928A)

© PatBase

Title: WATER SOLUBLE MAGNESIUM COMPOUNDS AS CLEANING AGENTS AND METHODS OF USING THEM

Abstract: The present invention relates to compositions and methods employing a water soluble magnesium compound. In certain embodiments, the composition includes water and water soluble magnesium compound, but lacks other materials commonly used in cleaning compositions. The methods and compositions can provide magnesium ion at predefined ratios to calcium ion in water, such as magnesium ion in a molar amount equal to or in excess over a molar amount of calcium ion. A water soluble magnesium salt including an anion of a water soluble calcium salt is more effective than a magnesium salt with an anion of a water insoluble calcium salt. These compositions can be used for reducing lime scale or precipitate formation from hard water, removing soap scum, or the like.

Classifications:

International (IPC 8-9): B01D27/02 B08B3/04 B08B3/08 B08B7/00 B08B7/04 B08B9/20 C02F1/52 C02F1/58 C02F5/00 C02F5/02 C09D5/08 C09K3/00 C10G45/00 C10G9/00 C10G9/16 C11D1/00 C11D1/83 C11D11/00 C11D17/00 C11D17/06 C11D17/08 C11D3/00 C11D3/02 C11D3/04 C11D3/08 C11D3/10 C11D3/12 C11D3/16 C11D3/20 C11D3/24 C11D3/37 C11D3/38 C11D3/39 C11D3/48 C11D3/60 C11D7/02 C11D7/10 C11D7/12 C23C20/00 C23C20/06 C23C22/00 C23F1/08 C23F11/06 C23F11/08 C23F11/12 C23F11/18 C23G1/18 C23G1/20 C23G1/22 D06F39/00

D06L1/12 (Advanced/Invention);

C02F5/06 (Advanced/Non-invention);

B01D27/00 B08B3/04 B08B3/08 B08B7/00 B08B7/04 C02F1/52 C02F1/58 C02F5/00 C09D5/08 C09K3/00 C10G45/00 C10G9/00 C11D1/00 C11D1/83 C11D11/00 C11D17/00 C11D17/08 C11D3/00 C11D3/02 C11D3/04 C11D3/08 C11D3/10 C11D3/12 C11D3/16 C11D3/20 C11D3/24 C11D3/37 C11D3/38 C11D3/39 C11D3/48 C11D7/02 C23C20/00 C23C22/00 C23F1/08 C23F11/12 C23F11/18 C23G1/18 C23G1/20 C23G1/22 D06F39/00 (Core/Invention)

International (IPC 1-7): C11D1/00 C11D3/04

CPC: C02F5/02 C02F5/06 C02F2303/14 C02F2303/22 C11D11/0023 C23F11/08 C23F11/124 C23F11/18 C23G1/20 C23G1/22 C11D3/046 C11D7/10 C11D3/044 C11D3/10

European: C11D11/00B2D C11D3/04S C11D7/10

US: 106/14.05 106/14.050S 134/109 134/109S 134/18 134/18P 134/25.1 134/25.2 134/25.3 134/25.4 134/36 134/42 134/56.00DS 134/56D 134/7 134/7P 210/287 210/287S 210/723 210/723S 252/174 252/387 252/387S 252/388 252/388S 252/396 252/396S 422/13 422/18 426/321 426/323 510/108 510/108S 510/109 510/109S 510/161 510/180 510/181 510/181S 510/189 510/214 510/218 510/218S 510/219 510/219S 510/220 510/220S 510/221 510/224 510/225 510/227 510/232 510/233 510/234 510/235 510/235S 510/238 510/238S 510/255 510/258 510/283 510/287 510/293 510/298 510/336 510/337 510/337S 510/356 510/356S 510/393 510/393S 510/400 510/400S 510/401 510/401S 510/403 510/403S



510/404 510/404S 510/405 510/405S 510/420 510/420S 510/433 510/433S 510/435 510/445 510/445S 510/446 510/446S
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510/521 68/12.13 68/12.130S 8/137 99/483

Family:

Publication number	Publication date	Application number	Application date
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CA2681676 C	20151229	CA20082681676	20080502
CA2681890 AA	20081113	CA20082681890	20080502
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WO08137802 A3	20081231	WO2008US62576	20080502

Priority:

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US20110209719	20110815				

Probable Assignee: ECOLAB USA INC

Assignee(s): (std): ECOLAB INC ; MILLS KRISTEN A ; LAWRENCE MICHEL ; ERICKSON ANTHONY W ; FERNHOLZ PETER J ; LAWRENCE MICHEL M ; ECOLAB USA INC ; SANDERS LISA M ; TJELTA BRENDA L ; OLSON KEITH E ; SMITH KIM R ; RISCHMILLER MICHAEL ; MONSRUD LEE J ; SCHACHT PAUL F ; SCHMIDT ERIC V ; BARTELME MICHAEL ; BARTELME MICHAEL J ; BESSE MICHAEL E ; BOLDUC JOHN W

Assignee(s): ECOLAB INC ST PAUL ; ECOLAB IN

Inventor(s): (std): OLSON KEITH E ; MONSRUD LEE J ; MILLS KRISTEN A ; SMITH KIM R ; SANDERS LISA M ; TJELTA BRENDA L ; BESSE MICHAEL E ; BARTELME MICHAEL J ; RISCHMILLER MICHAEL ; LAWRENCE MICHEL ; ERICKSON ANTHONY W ; SCHACHT PAUL F ; BOLDUC JOHN W ; FERNHOLZ PETER J ; LAWRENCE MICHEL M ; BARTELME MICHAEL ; SCHMIDT ERIC V ; MICHAEL E BESSE ; KEITH E OLSON ; LISA M SANDERS ; KIM R SMITH ; BRENDA L TJELTA ; KRISTEN A MILLS ; LEE J MONSRUD ; SMITH KIM ; BESSE MICHAEL ; MICHEL LAWRENCE ; LAWRENCE MICHAEL M

Inventor(s): BRENDA LTJELTA ; SMITH KIM R WOODBURY ; BESSE MICHAEL E GOLDEN VALLEY ; BARTELME MICHAEL J EDEN PRAIRIE ; LAWRENCE MICHEL M INNER GROVE HEIGHTS ; OLSON KEITH ; SANDERS LISA ; MICHEL M LAWRENCE ; TJELTA BRENDA ; MICHAEL J BARTELME

Agent(s): SPRUSON AND FERGUSON; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; POLYPATENT; GODEMEYER BLUM LENZE PATENTANWALTE PARTNERSCHAFT MBB WERKPATENT; ARIAS JUAN; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; ECOLAB INC; MERCHANT AND GOULD PC; ECOLAB USA INC; ANDREW D; LAURA C; AMY J; SORENSSEN ANDREW D; SOREN ANDREW D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

303) Family number: 59134961 (US2015122840A)

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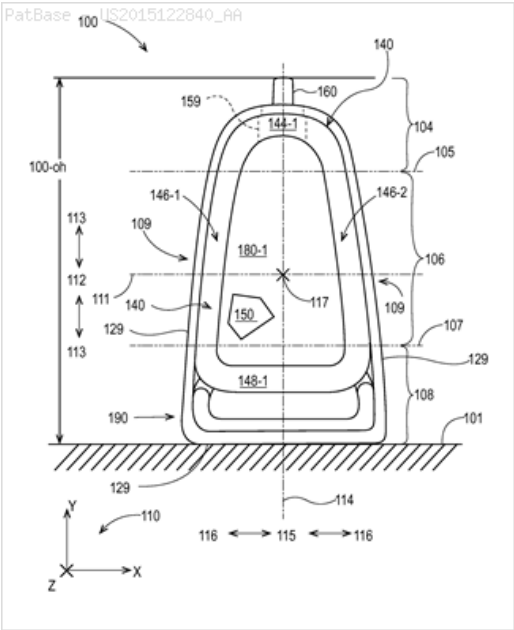
Title: FLEXIBLE CONTAINERS HAVING FLEXIBLE VALVES

Abstract: Non-durable self-supporting flexible containers having product volumes and structural support volumes are provided with a valve mechanism to facilitate dispensing fluid product from the product support volume. One or more tension-inducing elements may be used to provide the valves with the ability to permit dispensing of fluid product from the product volume upon application of greater than a minimum threshold but less than a maximum threshold of squeeze force to an exterior of the flexible container. The valve may also be re-closable to prevent fluid product from being dispensed subsequent to use. The flexible container may further be provided with a product sensory experience sampling mechanism to provide for consumer interaction with one or more characteristics of the fluid product contained in the product volume without compromising the integrity of the product volume.

Classifications:

International (IPC 8-9): B65B1/02 B65B3/02 B65B31/04 B65B33/00

B65B5/02 B65D30/10 B65D30/24 B65D33/01 B65D33/02 B65D37/00 B65D47/06 B65D47/20 B65D75/00 B65D75/20 B65D75/52 B65D75/54 B65D75/56 B65D75/58 B65D77/22 B65D81/03 B65D83/00 F16K15/14 F16K37/00 (Advanced/Invention) **CPC:** B65D83/0094 B65D47/06 F16K37/0058 F16K15/144 B65D47/20 B65D75/008 B65D75/20 B65D75/525 B65D75/54 B65D75/566 B65D75/5866 B65D75/5877 B65D75/5883 B65D77/225 B65D81/03 B65D2205/02 B65D75/00 **US:** 222/159 222/192 222/213



Family:

Publication number	Publication date	Application number	Application date
BR112016010231 A2	20170808	BR20161110231	20141106
CA2927199 AA	20160412	CA20142927199	20141106
CN105705428 A	20160622	CN201480060460	20141106
CN105705428 B	20180619	CN201480060460	20141106
DE602014024612 D1	20180524	DE201460024612T	20141106
EP3066029 A1	20160914	EP20140810048	20141106
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ES2675922 T3	20180713	ES20140810048T	20141106
ID201705732 A	20170602	ID2016P0002664	20141106
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JP2016533986 T2	20161104	JP20160550692T	20141106
JP6397037 B2	20180926	JP20160550692T	20141106
KR101845645 B1	20180404	KR20167011789	20141106
KR20160067163 A	20160613	KR20167011789	20141106
MX2016005521 A1	20160722	MX20160005521	20141106
PH2016500837 A	20160613	PH20160500837	20160505
RU2016114466 A	20171207	RU20160114466	20141106
US2015122840 AA	20150507	US20140534203	20141106
US2017259984 AA	20170914	US20170606405	20170526
US9694965 BB	20170704	US20140534203	20141106
US10138049 BB	20181127	US20170606405	20170526
WO15069856 A1	20150514	WO2014US64280	20141106

Priority:

US20130900508P 20131106 EP20140810048 20141106 US20140534203 20141106
WO2014US64280 20141106 US20170606405 20170526

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE

Assignee(s): MCGUIRE KEN ; RAPACH ANDREW ; LESTER JOSEPH ; STANLEY SCOTT ; KALEIDOSCOPE INC ; PROCTER AND GAMBLE CO CINCINNATI ; YOU JUN ; ARENT LEE ; BOURGEOIS MARC ; COX DONALD ; GUNNERSON KORY

Inventor(s): (std): ANDREW RAPACH ; ARENT LEE ; BOURGEOIS MARC ; COX DONALD ; DONALD COX ; GUNNERSON KORY ; J YOU ; JOSEPH LESTER ; JUN YOU ; KEN MCGUIRE ; KORY GUNNERSON ; LEE ARENT ; LESTER JOSEPH ; MARC BOURGEOIS ; MCGUIRE KEN ; RAPACH ANDREW ; SCOTT STANLEY ; STANLEY SCOTT ; YOU JUN ; YOUJUN

Inventor(s): YOU JUN CINCINNATI ; STANLEY SCOTT CINCINNATI ; RAPACH ANDREW CINCINNATI ; MCGUIRE KEN CINCINNATI ; LESTER JOSEPH CINCINNATI ; GUNNERSON KORY CINCINNATI ; COX DONALD CINCINNATI ; BOURGEOIS MARC CINCINNATI ; ARENT LEE CINCINNATI

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; ENGISC GAUTIER; DEL VALLE SONIA; MAULITTA PRAMULASARI; TANI AND ABE PC; JEFFREY V; CHARLES R; WEIRICH DAVID M; GUFFEY TIMOTHY B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

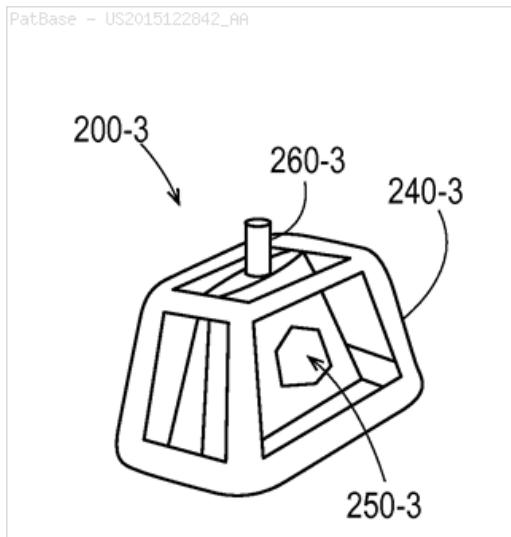
304) Family number: 59134962 (US2015122841A)

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Title: EASY TO EMPTY FLEXIBLE CONTAINERS

Abstract: Various containers are provided that include a resiliently deformable product volume and a dispenser configured to dispense fluent product from the product volume. When no dispensing force is applied to the product volume, the product

PatBase PDF Export - Page: 301 31/03/2019

**Family:**

Publication number	Publication date	Application number	Application date
BR112016010229 A2	20170808	BR20161110229	20141106
CA2927233 AA	20160412	CA20142927233	20141106
CN105683059 A	20160615	CN201480060409	20141106
EP3066027 A1	20160914	EP20140806495	20141106
ID201705493 A	20170526	ID2016P0002663	20141106
IN201617013233 A	20160831	IN201617013233	20160415
JP2016534949 T2	20161110	JP20160526936T	20141106
MX2016005514 A1	20160722	MX20160005514	20141106
US2015122842 AA	20150507	US20140534201	20141106
WO15069855 A1	20150514	WO2014US64279	20141106

Priority:

US20130900501P 20131106 US20140534201 20141106 WO2014US64279 20141106

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; STANLEY SCOTT ; BERG CHARLES JR ; MCGUIRE KEN

Inventor(s): (std): BERG CHARLES JR ; BERG JR CHARLES ; CHARLES BERG JR ; KEN MCGUIRE ; MCGUIRE KEN ; SCOTT STANLEY ; STANLEY SCOTT

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; MAULITTA PRAMULASARI; TANI AND ABE PC; GUFFEY TIMOTHY B ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

306) Family number: 63986964 (US2016333874A)

© PatBase

Title: FOAM PUMP AND DISPENSER EMPLOYING SAME

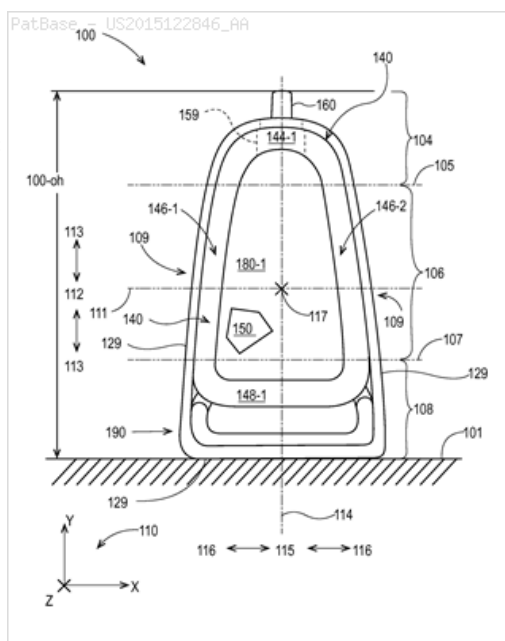
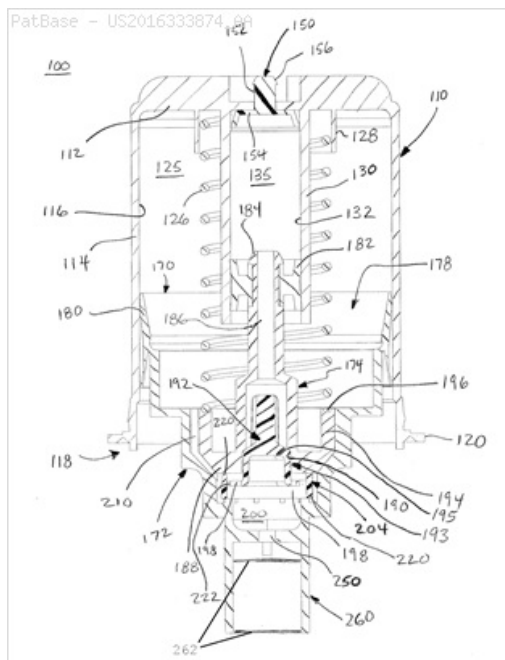
Abstract: A foam pump for generating a foam comprising a foamable liquid and air has dual, coaxial air and liquid cylinders, each having a respective air and liquid piston which move together during a dispensing operation. One or more air passageways between the air cylinder and a liquid-air mixing chamber are configured to impart rotation to an airstream passing from the air cylinder to the mixing chamber to increase turbulent mixing of the air and liquid in the mixing chamber. The liquid cylinder is axially aligned with the air cylinder to provide a low profile pump which does not require a dip tube or sleeve to communicate with the bottom of the liquid source when used in an inverted application wherein the foam pump is positioned below the source of liquid. A resilient valve member in the liquid outlet is biased to close on its own to prevent leaking in the event the air and liquid pistons do not fully return to the home position.

Classifications:

International (IPC 8-9): F04B1/12 F04B15/00 F04B19/06 F04B19/22 F04B53/10 F04B53/14 (Advanced/Invention)

CPC: F04B13/02 F04B19/06 F04B15/00 F04B53/141 F04B19/22 F04B53/1005 F04B1/124 F04B1/0439 F04B9/14

US: 417/92



CN105705429 A	20160622	CN201480060465	20141106
DE602014018897 D1	20180125	DE201460018897T	20141106
EP3066024 A1	20160914	EP20140805418	20141106
EP3066024 B1	20171220	EP20140805418	20141106
ID201705822 A	20170602	ID2016P0002661	20141106
IN201617013035 A	20160831	IN201617013035	20160413
JP2016538204 T2	20161208	JP20160550693T	20141106
MX2016005589 A1	20160721	MX20160005589	20141106
US2015122846 AA	20150507	US20140534206	20141106
US9850046 BB	20171226	US20140534206	20141106
WO15069857 A1	20150514	WO2014US64282	20141106

Priority:

US20130900514P 20131106 EP20140805418 20141106 US20140534206 20141106
WO2014US64282 20141106

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): RAPACH ANDREW ; YOU JUN ; STANLEY SCOTT ; PROCTER AND GAMBLE CO CINCINNATI ; ARENT LEE ; GUNNERSON KORY ; KALEIDOSCOPE INC ; MCGUIRE KEN ; PROCTER AND GAMBLE CO

Inventor(s): (std): GUNNERSON KORY ; ARENT LEE ; MCGUIRE KEN ; RAPACH ANDREW ; STANLEY SCOTT ; YOU JUN ; YOUJUN

Inventor(s): ANDREW RAPACH ; YOU JUN CINCINNATI ; STANLEY SCOTT CINCINNATI ; RAPACH ANDREW CINCINNATI ; SCOTT STANLEY ; MCGUIRE KEN CINCINNATI ; ARENT LEE CINCINNATI ; JUN YOU ; JUNYOU ; KEN MCGUIRE ; KORY GUNNERSON ; LEE ARENT

Agent(s): KIRBY EADES GALE BAKER; HOYNG ROKH MONEGIER LLP; ENGISCH GAUTIER; MAULITTA PRAMULASARI; TANI AND ABE PC; CHARLES R; GUFFEY TIMOTHY B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

308) Family number: 1509970 (DE2133492A1)

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Title: PHOTO-HARDENABLE PRINTING PLATE - PRODN WITHOUT HARDENING PRIOR TO ETCHING

Abstract: Photo-compositing process as in parent patent, partic. for the prodn. of printing plates from a photo-hardenable liquid material, has the improvement whereby the plate is conveyed directly to the etch bath after image-wise exposure, in a vertical position without carrying out an after-hardening step.

Classifications:

International (IPC 8-9): G03F7/20 (Advanced/Invention);

F02B3/06 (Advanced/Non-invention);

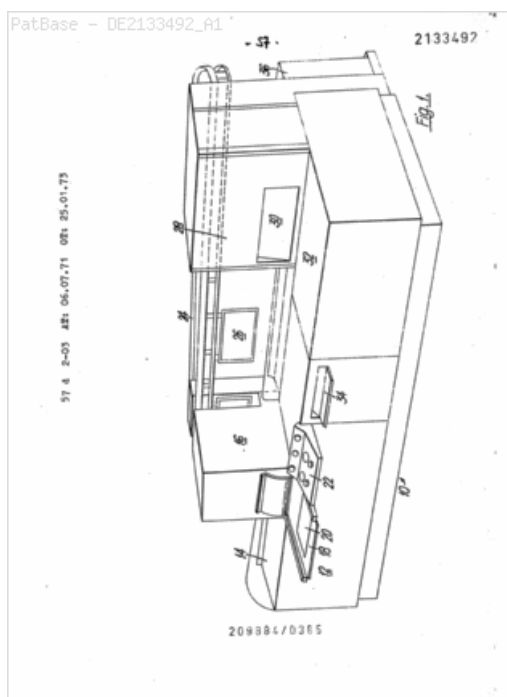
G03F7/20 (Core/Invention);

F02B3/00 (Core/Non-invention)

International (IPC 1-7): G03F7/00 G03F7/20

CPC: F02B3/06 G03F7/20

European: G03F7/20 R02B3/06



Family:

Publication number	Publication date	Application number	Application date
DE2133492 A1	19730125	DE19712133492	19710706

Priority:

DE19712133492 19710706

Probable Assignee: GRACE W R AND CO

Assignee(s): (std): GRACE W R AND CO

Assignee(s): W R GRACE AND CO NEW YORK N Y V ST A ; WR GRACE AND CO

Inventor(s): (std): BIXLER WARREN ANDREW ; LITSCHI GEROLD ; MILLER WESLEY WARREN

Inventor(s): MILLER WESLEY WARREN WYNCOTE ; LITSCHI GEROLD LANSDALE ; BIXLER WARREN ANDREW WARMINSTER PA V ST A ; BIXLER WARREN ANDREW WARMINSTER PA VSTA

Title: INTELLIGENT ELECTRONIC APPLIANCE SYSTEM AND METHOD

Abstract: An intelligent electronic appliance preferably includes a user interface, data input and/or output port, and an intelligent processor. A preferred embodiment comprises a set top box for interacting with broadband media streams, with an adaptive user interface, content-based media processing and/or media metadata processing, and telecommunications integration. An adaptive user interface models the user, by observation, feedback, and/or explicit input, and presents a user interface and/or executes functions based on the user model. A content-based media processing system analyzes media content, for example audio and video, to understand the content, for example to generate content-descriptive metadata. A media metadata processing system operates on locally or remotely generated metadata to process the media in accordance with the metadata, which may be, for example, an electronic program guide, MPEG 7 data, and/or automatically generated format. A set top box preferably includes digital trick play effects, and incorporated digital rights management features.

Classifications:

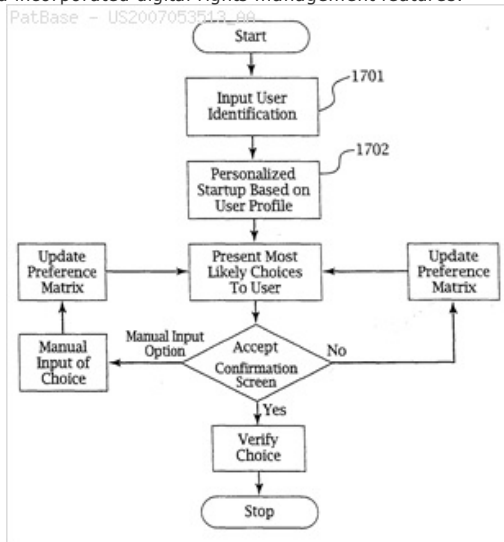
International (IPC 8-9): G06F17/00 G09G5/00 G11B21/02 H04K1/02 H04N5/78 H04N7/16 H04N7/167 H04R3/02 (Advanced/Invention)

International (IPC 1-7): G09G5/00 H04K1/02

CPC: G06K9/00369 H04N7/163 H04N21/4318 H04N21/44008 H04N21/44222 H04N21/4668 H04N21/475

European: G06K9/00H1 H04N21/431M H04N21/442E2 H04N21/44D H04N21/466R H04N21/475 H04N7/16E2

US: 345/716 345/719 345/727 348/E07.061 348/E7.061 348/E70.615 360/75 380/201 380/201P 380/252 381/73.1 386/321 700/94 715/716 715/719 715/727

**Family:**

Publication number	Publication date	Application number	Application date
US2007053513 AA	20070308	US20060467928	20060829
US6850252 BA	20050201	US20000680049	20001005
US7813822 BA	20101012	US20050045689	20050129
US7974714 BB	20110705	US20060467928	20060829

Priority:

US19990157829P 19991005 US20000680049 20001005 US20050045689 20050129
 US20060467928 20060829

Probable Assignee: BLANDING HOVENWEEP LLC

Assignee(s): (std): HOFFBERG STEVEN M ; HOFFBERG STEVEN MARK

Assignee(s): STEVEN M HOFFBERG 2004 1 GRAT ; BLANDING HOVENWEEP LLC ; HOFFBERG FAMILY TRUST 1

Inventor(s): (std): HOFFBERG STEVEN MARK ; HOFFBERG STEVEN M

Inventor(s): HOFFBERG STEVEN

Agent(s): MILDE AND HOFFBERG LLP; OSTROLENK FABER LLP; STEVEN M

Title: LIGHTENING PROCESS WITH BLONDING MOUSSE

Abstract: Processes for lightening keratinic fibers are provided. In an exemplary process a ready-to-use lightening composition is produced by, immediately prior to application, combining a composition (A) comprising an alkalinizing agent, a composition (B) comprising an oxidizing agent, and a composition (C) comprising a peroxy salt, and then mixing. The ready-to-use lightening composition is deployed from a foam dispensing vessel and distributed onto the fibers. The ready-to-use lightening composition is left on the fibers for a period of about 1 to about 60 min. and is washed out of the fibers.

Classifications:

International (IPC 8-9): A45D7/04 A61K8/04 A61K8/22 A61K8/41 A61K8/44 A61Q5/08 A61Q5/10 (Advanced/Invention); A45D7/00 (Advanced/Non-invention)

CPC: A45D2007/001 A61Q5/08 A45D7/04 A61K8/44 A61K8/046 A61K8/22 A61K8/41 A61K2800/5922 A61K2800/882

US: 1/1 132/208 132/286 424/62 562/575

Family:

Publication number	Publication date	Application number	Application date
DE102011079922 A1	20130131	DE201110079922	20110727
EP2736602 A2	20140604	EP20120723713	20120529
US2014283866 AA	20140925	US20120234758	20120529
US9282798 BB	20160315	US20120234758	20120529
WO13013862 A2	20130131	WO2012EP60036	20120529
WO13013862 A3	20141120	WO2012EP60036	20120529

Priority:

DE201110079922 20110727 WO2012EP60036 20120529

Probable Assignee: HENKEL AND CO KGAA AG

Assignee(s): (std): HENKEL AG AND CO KGAA ; HENKEL AND CO KGAA AG ; JANSSEN FRANK ; JANSSEN FRANK ; SCHMAHL MELANIE

Assignee(s): JANBETAEN FRANK

Inventor(s): (std): JANSSEN FRANK ; SCHMAHL MELANIE ; JANSSEN FRANK

Inventor(s): JANBETAEN FRANK

Agent(s): P SCOTT

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

311) Family number: 30143977 (US2003097314A) © PatBase

Title: BEVERAGE DISENSING APPARATUS HAVING FLUID DIRECTOR

Abstract: The present invention provides a beverage dispensing apparatus for a residential refrigerator. The beverage dispensing apparatus includes a drink supplier including a drink supply canister holder for holding a plurality of drink supply canisters, a plurality of valve actuators for causing the drink supply to be selectively released from the drink supply canisters, a water supplier for selectively supplying carbonated water and non-carbonated water for producing the beverages, a gas supplier for supplying CO2 gas to carbonate the carbonated water provided by the water supplier and for supplying CO2 gas or other gas for pressurizing the drink supply canisters to provide a consistent flow rate of the drink supply from the drink supply canisters, a fluid director for facilitating the mixing of the drink supply from one of the drink supply canisters and the carbonated or non-carbonated water from the water supplier and one or more beverage requesters for enabling users to request one of a plurality of beverages.

Classifications:

International (IPC 8-9): A23L2/00 B08B13/00 B08B3/02 B65D83/00 B65D83/14 B65D88/54 B67D1/00 B67D1/04 B67D1/08 B67D1/12 B67D3/00 B67D5/56 B67D5/62 B67D5/66 B67D7/34 B67D7/74 B67D7/80 B67D7/86 D06F39/08 F16K5/00 F25D17/06 F25D23/12 F25D3/00 G01F11/00 G01F11/30 G01F13/00 G05D11/02 G05D11/13 G05D7/06 G06F17/00 G06F7/08 G06Q10/00 G06Q10/08 G06Q20/20 (Advanced/Invention); B67D1/04 B67D1/12 (Advanced/Non-invention); B08B13/00 B65D83/00 B65D83/14 B65D88/00 B67D1/00 B67D3/00 B67D7/06 B67D7/74 B67D7/80 F16K5/00 F25D17/06 F25D23/12 F25D3/00 G01F11/00 (Core/Invention)

International (IPC 1-7): A47J31/00 B08B3/02 B65D35/28 B65D37/00 B65D83/14 B67D1/00 B67D5/06 B67D5/08 B67D5/14 B67D5/56 B67D5/62 B67D5/66 F25B41/04 F25B49/00 F25D11/00 G01F11/00 G06F17/00 G06F17/60

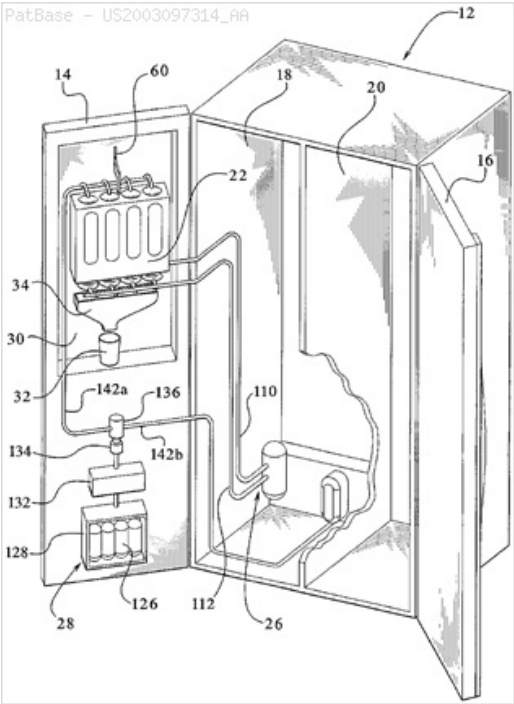
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US: 1/1 134/113 134/200 134/56.00D 134/56D 134/57 134/57.00D 134/57.00DP 134/57D 134/58 134/58.00DS 134/58D 134/93 134/94.1 134/94.100S 134/99.2 222/129 222/129.1 222/129.100P 222/129.100S 222/129.3 222/129.300S 222/129.4 222/132 222/135 222/136 222/146.1 222/146.6 222/146.600S 222/23 222/23S 222/25 222/25P 222/325 222/399 222/482 222/484 222/52 222/61 222/61S 235/381 251/310 251/310S 62/125 62/125S 62/3.64 62/364 62/389 62/389.9 62/389P 62/389S 62/390 62/390P 62/390S 62/392 62/398 62/398P 62/399 623/890 68/12.01 68/17.00R 68/17R 70/52.8 700/231 700/231S 700/236 700/237 700/239 700/240 700/241 700/241S 700/242 700/283 700/283P 700/285 700/285S 705/16 705/16P 705/22 705/22P 705/23 705/24 705/26 705/26P 705/28 705/28P 705/34 705/34P

Family:

Publication number	Publication date	Application number	Application date
AU2002346518 AA	20030617	AU20020346518	20021121
AU2002346518 AH	20030617	AU20020346518	20021121
TW200306280 A	20031116	TW20020134347	20021126
US2003097314 AA	20030522	US20010007059	20011130
US2004211210 AA	20041028	US20040852531	20040524
US2004215521 AA	20041028	US20040852077	20040524
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US2005177454 AA	20050811	US20050036168	20050114
US2005177481 AA	20050811	US20050036169	20050114
US2005178144 AA	20050818	US20050097768	20050331



US2006151529 AA	20060713	US20060374891	20060313
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US2006196892 AA	20060907	US20060419412	20060519
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US2013325173 AA	20131205	US20130962656	20130808
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US2015353336 AA	20151210	US20150749325	20150624
US6751525 BA	20040615	US20000589725	20000608
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US6799085 BA	20040928	US20010035734	20011022
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Priority:

US20000589725	20000608	US20010790349	20010221	US20010035734	20011022
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US20130962677	20130808	US20130962656	20130808	US20150749325	20150624
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Probable Assignee: BEVERAGE WORKS INC

Assignee(s): (std): BEVERAGE WORKS IN C ; BEVERAGE WORKS INC ; CRISP HARRY L III ; DUFF TODD E ; CRISP III HARRY LEE ; TANNER ROGER ; RAMSEY CHRISTOPHER PAUL

Assignee(s): DUFF TODD ERIK ; WYETH ; IGT ; CRISP HARRY LEE ; CRISP HARRY LIII ; ACACIA RESEARCH GROUP LLC ; BEVERAGE DISPENSING SOLUTIONS LLC

Inventor(s): (std): CRISP HARRY L III ; CRISP HARRY LEE ; CRISP HARRY LEE III ; CRISP HARRY LIII ; CRISP III ; CRISP

III HARRY LEE ; DUFF TODD E ; DUFF TODD ERIK ; HARRY LEE III CRISP ; RAMSEY CHRISTOPHER PAUL ; ROGER TANNER ; TANNER ROGER ; TODD ERIK DUFF ; RAMSEY CHRISTOPHER P ; BEVERAGE WORKS INC ; CHRISTOPHER PAUL RAMSEY

Inventor(s): CRISP ; CRISP HARRY ; III HARRY LEE ; RAMSEY CHRISTOPHER ; DUFF TODD

Agent(s): BELL BOYD AND LLOYD LLC ; K AND L GATES LLP ; BELL BOYD AND LLOYD LLP ; BELL BOY AND LLOYD LLP ; BELL BOYD AND LLOYD ; NEAL GERBER AND EISENBERG LLP ; NEAL GERBER AND EISENBERG LLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

312) Family number: 6808981 (US3753777A)

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Title: SURFACE CLEANING METHOD

Abstract: A method for cleaning surfaces such as floors and pavements that includes incorporating a polyelectrolyte in the cleaning solution and a surface scrubbing machine for carrying out the process. As specifically disclosed, the method comprises applying the cleaning solution to the surface together with agitating the solution on the surface to cause formation of flocs, removing the floc containing solution from the surface by, for example, squeegeeing, and returning the recovered solution to a solution tank and, if desired, separating out the flocs. With a scrubbing machine the solution tank is on the machine, and the agitation may be provided by, for example, a rotary brush on the machine, or by applying the cleaning solution to the surface by forcing the solution under pressure through discharge nozzles. Although not necessary for some cleaning operations, in others a detergent or soap compatible with the polyelectrolyte is incorporated in the solution. With various combinations of polyelectrolyte and detergent, the addition of a suitable flocculation aid such as metallic salts to the solution enhances the degree of flocculation and the strength and size of the flocs.

Classifications:

International (IPC 8-9): A47L11/29 A47L11/30 B01D21/01 B08B1/04 B08B3/08 B08B7/04 C11D11/00 C11D3/37 C11D7/22

E01H1/10 (Advanced/Invention);

A47L11/29 B01D21/01 B08B1/04 B08B3/08 B08B7/04 C11D11/00

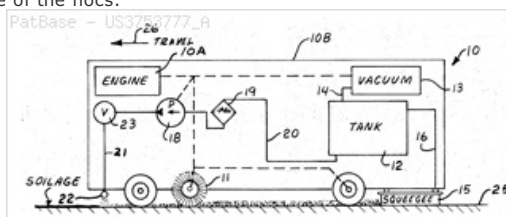
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International (IPC 1-7): A47L11/30 B08B1/04 B08B3/00 B08B3/04 B08B3/08 B08B7/04 B62D63/00 C11D11/00 C11D3/37 E01H1/00 E01H1/10

CPC: A47L11/30 A47L11/4022 A47L11/4044 A47L11/4083 C11D3/37 C11D3/3761 C11D11/0029 E01H1/103

European: A47L11/30 A47L11/40D2D A47L11/40F6 A47L11/40N2 C11D11/00B2D2 C11D3/37 C11D3/37C6B E01H1/10B2

US: 134/0.6 134/10 134/21 134/34 134/37 134/40 134/6 15/320 15/340.3 252/173 510/214 510/405 510/434 510/437 510/470 510/475 510/476 510/506 510/508



Family:

Publication number	Publication date	Application number	Application date
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FR2157440 A5	19730601	FR19720036201	19721012
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IT1021609 A	19780220	IT19740052709	19740822
IT989513 A	19750610	IT19720053323	19721012
JP48072203 A2	19730929	JP19720101956	19721013
SE382396 B	19760202	SE19720013125	19721011
SE382396 C	19760513	SE19720013125	19721011
US3753777 A	19730821	US19710188760	19711013
US4096084 A	19780620	US19740507738	19740920

Priority:

US19710188760 19711013 US19730366429 19730604

Probable Assignee: TENNANT CO

Assignee(s): (std): TENNANT CO

Assignee(s): TENNANT CO MINNEAPOLIS MINN V ST A ; TENNANT CO US ; TENNANT COMPANY ; THOMSEN DONALD L ; HERPERS FERDINAND J

Inventor(s): (std): HERPERS F ; HERPERS JR F J ; HERPERS JR FERDINAND J ; THOMSEN DONALD L ; THOMSON DONALD L ; HERPERS JUN FERDINAND J ; HERPERS FERDINAND J JR ; THOMSEN D ; THOMSEN D L

Inventor(s): THOMSEN D US ; HERPERS FERDINAND J ; HERPERS JUN ; HERPERS F US

313) Family number: 54783982 (US2013243514A)

© PatBase

Title: PRECISION LIQUID APPLICATOR

Abstract: A precision liquid applicator is disclosed for dispensing an applicator liquid from a container onto a surface. The precision liquid applicator comprises a closure defining a terminal orifice and a valve seat. A valve comprises a precision applicator tip extending through the terminal orifice and comprises a valve seal for sealing with the valve seat. A depression of the precision applicator tip onto the surface displaces the valve seal from the sealing surface for providing an annular passageway between the precision applicator tip and the terminal orifice to enable the flow of the applicator liquid onto the surface. A valve stop cooperates with a stop wall for limiting movement of the valve to control a cross-sectional area of the passageway between the precision applicator tip and the terminal orifice and for ensuring the precision applicator tip extends beyond the second end of the closure. The precision liquid applicator is suitable for applying paint into a scratch within a painted surface without excessive application of paint outside of the scratch.

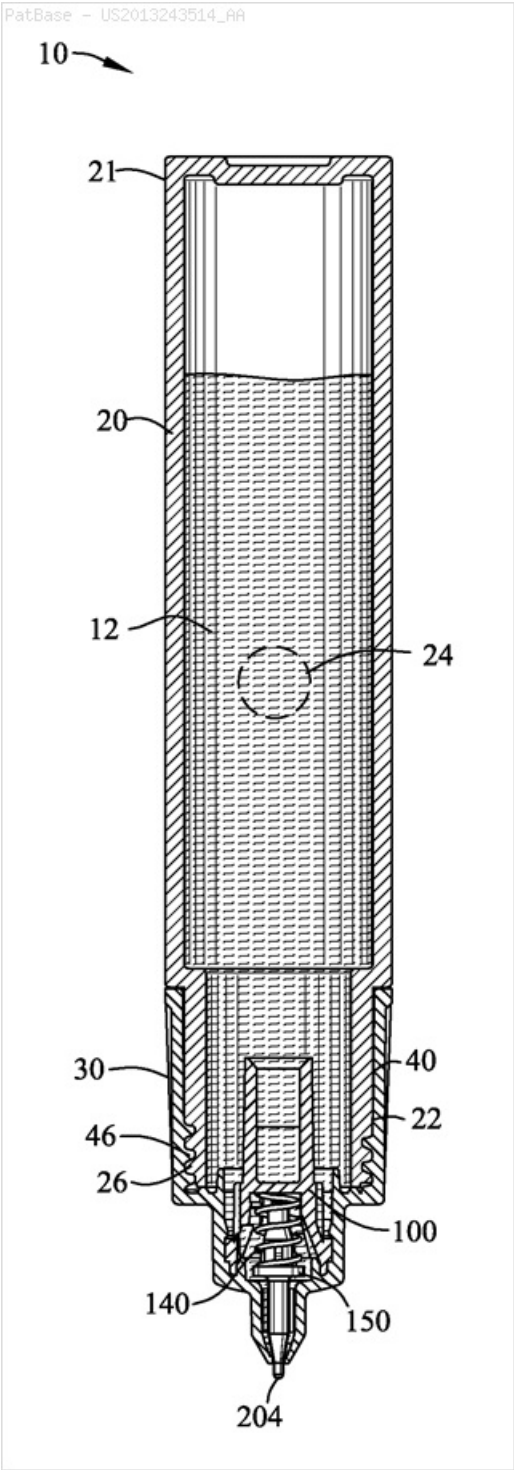
Classifications:

International (IPC 8-9): A45D34/04 B05C1/00 B05C17/00 B05D5/00 B43K1/06 B43K1/08 B43K29/18 B43K5/17 B43K5/18

B44D3/16 (Advanced/Invention);

B05D5/00 (Advanced/Non-invention)

CPC: B05C1/00 B43K5/1836 B43K5/1845 A45D34/042 A45D34/045 B05C17/00 B05D5/005



Family:

Publication number	Publication date	Application number	Application date
CA2867154 AA	20140911	CA20132867154	20130314
EP2825393 A1	20150121	EP20130761591	20130314
EP2825393 A4	20160420	EP20130761591	20130314
US2013243514 AA	20130919	US20130829887	20130314
US9346072 BB	20160524	US20130829887	20130314
WO13138664 A1	20130919	WO2013US31729	20130314

Priority:

US20120611811P 20120316 US20130829887 20130314 WO2013US31729 20130314

Probable Assignee: FLOCON INC

Assignee(s): (std): BALLOT STEPHAN M ; FLOCON INC

Assignee(s): FLOCON INC339 CARY POINT DRIVECARYIL60013US

Inventor(s): (std): BALLOT STEPHAN M

Inventor(s): BALLOT STEPHAN MUS

Agent(s): LESPERANCE AND MARTINEAU SENC; VON ROHR PATENTANWALTE PARTNERSCHAFT MBB; FRIJOUF RUST AND PYLE PA; FRIJOUF ROBERT F ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK

314) Family number: 30090984 (US2002004942A)

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Title: BIOLUMINESCENT NOVELTY ITEMS

Abstract: Novelty items that are combinations of articles of manufacture with fluorescent proteins are provided. These novelty items, include combinations of transgenic plants that express a luciferase or a luciferin with plant food that contains a luciferase and a luciferin.

Classifications:**International (IPC 8-9):** A01H1/00 A01H5/00 A01K67/027 A23G1/00

A23G3/00 A23G3/36 A23G3/50 A23G9/32 A23G9/36 A23G9/44

A23L1/00 A23L1/03 A23L1/27 A23L1/30 A23L2/00 A23L2/38

A23L2/52 A23L2/58 A23L2/66 A23L2/90 A23P1/04 A24D3/14

A45D34/00 A61C17/02 A61K38/00 A61K47/48 A61K49/00 A61K8/00

A61K8/11 A61K8/14 A61K8/64 A61K8/66 A61K8/96 A61K8/98

A61K8/99 A61K9/127 A61K9/64 A61Q11/00 A61Q19/00 A63H33/22

B05B15/00 B05B17/08 B05B7/04 B05B7/24 B05C17/005 B65D65/38

C05F11/04 C07K14/435 C07K16/28 C09D5/22 C09K11/00

C09K11/07 C11D9/00 C12C12/00 C12C5/04 C12G1/00 C12G3/00

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C12N15/10 C12N15/54 C12N15/62 C12N15/82 C12N5/10 C12N9/02

C12P21/08 C12Q1/26 C12Q1/66 C12Q1/68 D06Q1/00 D21H11/00

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F21V33/00 F41B9/00 F41C3/00 (Advanced/Invention);

A23L1/03 A23L1/30 A23L2/38 A45D34/00 A61K38/00 A61K8/00

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B65D65/38 C09K11/07 C12G1/00 C12G3/00 C12G3/02 C12N1/15

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B05B17/00 B05B7/04 B05B7/24 B05C17/005 B65D65/38

C07K14/435 C07K16/18 C09K11/07 C12C12/00 C12C5/00

C12G1/00 C12G3/00 C12G3/02 C12N1/15 C12N1/19 C12N1/21

C12N15/02 C12N15/09 C12N15/82 C12N5/10 C12N9/02 C12P21/08

C12Q1/26 C12Q1/66 C12Q1/68 D06Q1/00 F21K2/00 F21K9/00

F21S8/00 F21V33/00 F41B9/00 (Core/Invention);

A45D34/00 A61K38/00 F21K2/00 (Core/Non-invention)

International (IPC 1-7): A01H5/00 A01K67/00 A23G1/00 A23G3/00

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A63H33/30 B05B15/00 B05B17/08 B65D65/38 C07K16/28 C09D5/22 C09K11/07

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CPC: Y10S493/955 A23L2/38 A23L2/58 A23V2002/00 A61K8/64

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F21S8/00 F21W2131/401 F21V33/0028 F21W2121/02

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Y10T442/259 A23K20/00 A23K20/189 A23K50/80

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M07K215/00 M07K319/00 M07K319/00E

M12N203/00 M12N205/00 M12N207/00

M12N215/00 R21W121/02 R21W131/401

US: 124/74 124/76 162/162 162/162S

222/1 229/87.19 42/54 42/54S

424/45 424/450 424/450S 424/456

424/456S 424/49 424/63

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424/70.6 424/70.7

424/78.02 424/94.4

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435/189 435/252.2

435/320.1

435/6 435/6.13

435/69.1

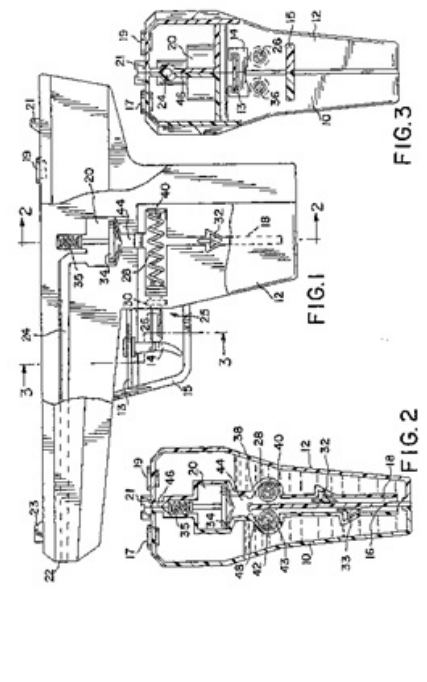
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442/131S

446/473

PatBase - US2002004942_AA

Patent Application Publication Jan. 10, 2002 Sheet 1 of 9 US 2002/004942 A1

**Family:**

Publication number	Publication date	Application number	Application date
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AT388224 E	20080315	AT19990914203T	19990326
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AU199932103 A1	19991018	AU19990032103	19990326
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AU765703 B2	20030925	AU19990032103	19990326
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EP1064360 A2	20010103	EP19990914203	19990326

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EP1925320 A2	20080528	EP20080001764	19990326
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Priority:

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US20050211039	20050824				

Probable Assignee: GAUSSIA LLC

Assignee(s): (std): BRUCE BRYAN ; BRUCE J BRYAN ; BRYAN BRUCE ; BRYAN BRUCE J ; PROLUME LTD ; SZENT GYORGYI CHRISTOPHER

Assignee(s): BIOLUME INC ; GAUSSIA LLC

Inventor(s): (std): BRUCE BRYAN ; BRUCE J BRYAN ; BRYAN BRUCE ; BRYAN BRUCE J ; SZENT GYORGYI CHRISTOPHER

Inventor(s): CHRISTOPHER SZENT GYORGYI

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR; BALDOCK SHARON CLAIRE ET AL; BALDOCK SHARON CLAIRE; REINHOLD COHN AND PARTNERS; LARA A NORTHROP PIETRAGALLO BOSICK AND GORDON LLP

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

315) Family number: 67213990 (IN201613012796A)

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Title: AN INNOVATIVE MULTIFEATURE-EQUIPPED TOOTHPASTE DISPENSING PORTABLE TOOTHBRUSH/DENTIFRICE FOR ORAL-DENTAL HYGIENE

Abstract: The present invention is in general directed towards the field of oral and dental healthcare and in particular directed towards an innovative and highly novel multifeature-equipped toothpaste dispensing portable toothbrush/dentifrice for oral-dental hygiene, with same incorporating within it a paste dispensing mechanism which is regulated and synchronized, so as to provide a simple, portable and an easy to use multifeature equipped toothpaste dispensing toothbrush for brushing teeth. The multifeature-equipped attributes are inclusive of an inbuilt calibration attribute and attribute such as the toothpick carrying option as well as the dental floss carrying option. The multifeature-equipped toothpaste dispensing portable toothbrush/dentifrice for oral-dental hygiene as arrayed in the present invention also contains a mechanism for the mechanical refilling of the brushing media.

Classifications:

International (IPC 8-9): A61C15/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201613012796 A	20171013	IN201613012796	20160412

Priority:

IN201613012796 20160412

Probable Assignee: BRIJENDER SINGH

Assignee(s): BRIJENDER SINGH ; SURINDER SINGH

Inventor(s): BRIJENDER SINGH ; SURINDER SINGH

316) Family number: 68878994 (US2018074477A)

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Title: METHODS FOR SIMULTANEOUSLY PRODUCING DIFFERENT PRODUCTS ON A SINGLE PRODUCTION LINE

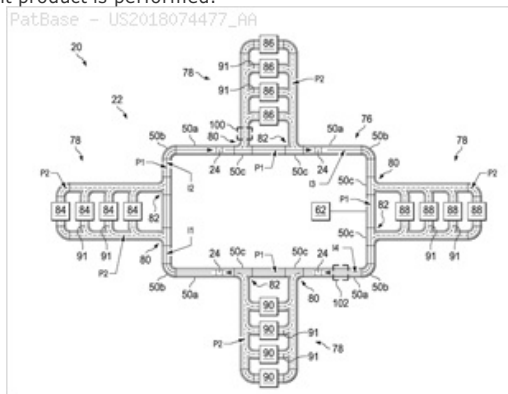
Abstract: Methods for simultaneously producing different products on a single production line are disclosed. The method

may be used to produce different fluent products and other types of products including assembled products. In some cases, the method includes providing a plurality of articles which are components of the products to be produced. The method further involves providing a track system and a plurality of vehicles for the articles. At least some of the vehicles may be independently routable around the track system. The method further includes simultaneously sending one article-loaded vehicle to a unit operation station where a step in the production of a product is performed and another article-loaded vehicle to a unit operation station where a step in the production of a different product is performed.

Classifications:

International (IPC 8-9): G05B19/418 (Advanced/Invention)

CPC: G05B19/4189 G05B2219/31274 G05B19/41865 Y02P90/04 Y02P90/20 Y02P90/28



Family:

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US2018074477 AA	20180315	US20170698681	20170908
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Priority:

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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): ROYCE DANIEL RICHARD ; MOORE NATHAN E ; FIKES ELIZABETH MARIE ; BURKHARD RYAN ANDREW ; BALLMAN KYLE CHRISTOPHER

Agent(s): KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

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Title: SYSTEM AND METHOD FOR PRODUCING PRODUCTS BASED UPON DEMAND

Abstract: A system and method for producing products based upon demand are disclosed. In some cases, the products include containers and the contents therein. The containers are disposed on vehicles and are independently routable along a track system and are deliverable to at least one unit operation station. A control system: receives demand for finished products; determines a route for vehicles based upon the status of one or more unit operation stations; and causes a vehicle to progress along a determined route to create one or more of the demanded finished products. The system may be used to produce the same fluent products, different fluent products, and other types of products including assembled products.

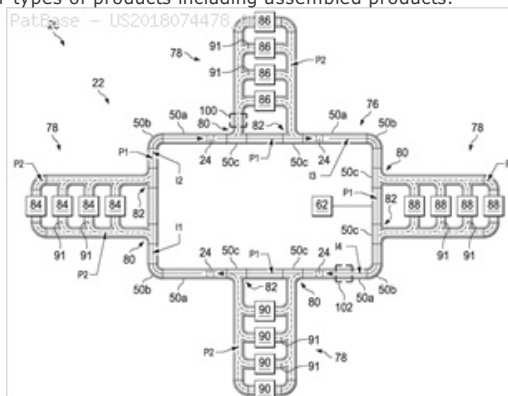
Classifications:

International (IPC 8-9): G05B19/418 G06Q10/06

G06Q50/04 (Advanced/Invention)

CPC: G05B19/41805 G05B2219/33064 G06Q10/06315 G06Q50/04

G05B19/418 G05B19/41865 G05B19/4189 Y02P90/04 Y02P90/20 Y02P90/28 Y02P90/30



Family:

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CA3035963 AA	20190306	CA20173035963	20170908
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WO18049121 A2	20180315	WO2017US50626	20170908
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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; ROYCE DANIEL RICHARD ; TYSSEN JULIE ELIZABETH ; BALLMAN KYLE

CHRISTOPHER ; BURKHARD RYAN ANDREW ; FIKES ELIZABETH MARIE ; MOORE NATHAN E

Inventor(s): (std): BALLMAN KYLE CHRISTOPHER ; BURKHARD RYAN ANDREW ; FIKES ELIZABETH MARIE ; MOORE NATHAN E ; ROYCE DANIEL RICHARD ; TYSEN JULIE ELIZABETH ; TYSEN JULIE ; ROYCE DANIEL ; FIKES ELIZABETH ; BURKHARD RYAN ; BALLMAN KYLE

Agent(s): KIRBY EADES GALE BAKER; KREBS JAY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW