

Search history

Search 1: SFT=(beverage* and dispenser and level and chamber and sensor and pump* and control*) (Results 614)

Search 2: STAC=(beverage* and dispenser and level and chamber and sensor and pump* and control*) (Results 32)

Search 3: STAC=(beverage* and dispenser and level and chamber and sensor and pump* and control*) and PD<20150216 (Results 27)

Title: **BEVERAGE** DISPENSING APPARATUS WITH A CARBONATION SYSTEM

Abstract: The present invention concerns apparatus for on-demand preparation of carbonated **beverages**. The invention further concerns processes for preparing and dispensing carbonated **beverages** upon user-demand.

Classifications:

International (IPC 8-9): A01B A23L2/00 A23L2/54 A47J31/00

A47J31/60 B01F3/04 B67D B67D1/00 B67D1/04 B67D1/07

B67D1/12 (Advanced/Invention);

B67D1/12 (Advanced/Non-invention);

B67D (Subclass/Invention)

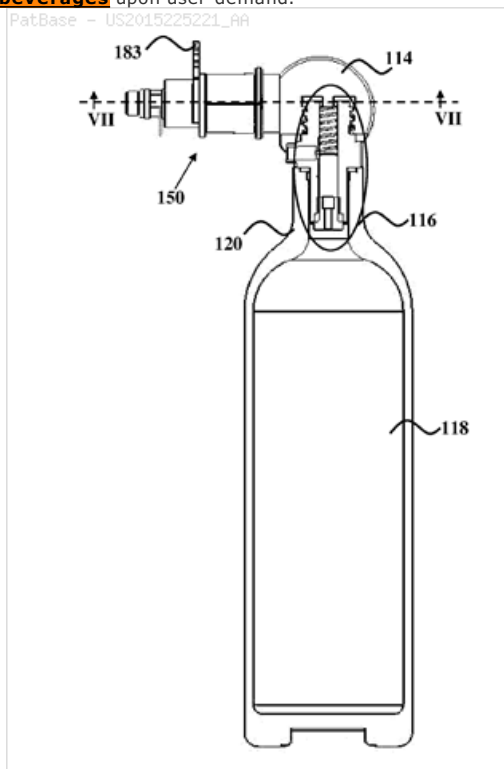
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B01F3/04787 B67D1/0075 B67D1/008 B67D1/125 B67D1/1252

B67D2210/00013 B67D2210/00015

US: 1/1 261/5 261/75 426/477



Family:

Publication number	Publication date	Application number	Application date
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MX2015003180 A1	20150714	MX20150003180	20130911
RU2015108785 A	20161110	RU20150108785	20130911
RU2629868 C2	20170904	RU20150108785	20130911
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WO14041539 A2	20140320	WO2013IL50768	20130911
WO14041539 A3	20140807	WO2013IL50768	20130911

Priority:

IL20120221929 20120913

EP20130771636 20130911

WO2013IL50768 20130911

IL20150236608 20150111

Probable Assignee: STRAUSS WATER LTD

Assignee(s): (std): STRAUSS WATER LTD ; STRAUSS WATER CO LTD ; STRAUSS UOTER LTD

Assignee(s): STRAUSS WATER CO ; WILDER HAIM ; EYAL EHUD ; GORDON BENNY ; KRYSTAL EYAL ; MERON MORDECHAY

Inventor(s): (std): B GORDON ; E CHRISTO ; E EYRE ; EYAL EHUD ; EYAL EKHU ; GORDON BENNI ; GORDON BENNY ; H WILDER ; KRISTAL EYAL ; KRYSTAL EYAL ; M MELON ; MERON MORDECHAY ; MERON MORDESHAJ ; UAJLDER KHAIM ; WILDER HAIM

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Agent(s): FASKEN MARTINEAU DUMOULIN LLP; MARKS AND CLERK LUXEMBOURG LLP; BOULT WADE TENNANT; REINHOLD COHN AND PARTNERS; BROWDY AND NEIMARK 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 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

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.

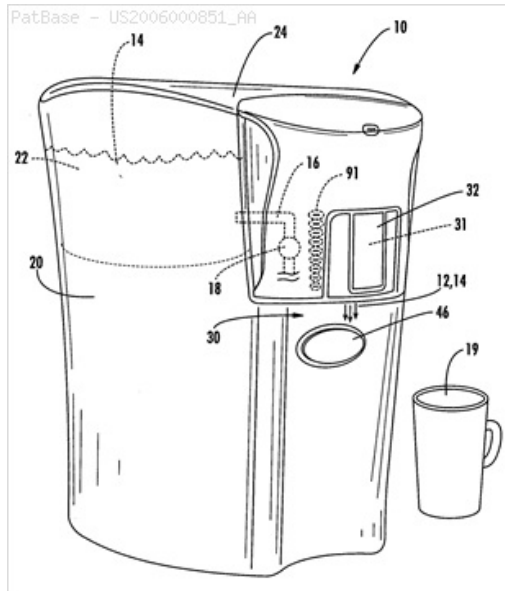
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Priority:

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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

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Inventor(s): PIRSHAFIE NASSER ; VASSAUX MARIO E SCOTTS DALE ; 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

Title: MULTIPLE BRAND ICE **BEVERAGE DISPENSER**

Abstract: A **beverage dispenser** for dispensing **beverages** includes a touch panel assembly, removable fittings in a carbonator, a carbonator probe, and a carbonator **pump** assembly removable from a front of the **beverage dispenser**. The touch panel assembly includes a light source for backlighting a user interface and providing the **dispenser** with a visual presence. Electrode traces in the touch panel assembly detect interruptions in electrode fields and are accepted as user inputs for dispensing a **beverage**. A **controller** conducts the lighting, dispensing, and reconfiguring operations for the flavor selection areas on the user interface. The touch panel assembly further includes provisions for increasing a user interface area to increase visibility of a particular flavor, as well as bonus flavors on a **beverage dispenser**. The removable fittings each include an orifice for entry of water to be carbonated into the carbonator. The carbonator probe is a single wire probe with timed refill.

Classifications:

International (IPC 8-9): A23L2/00 A23L2/54 A47J31/00 B01F3/04 B05B7/02 B65D5/56 B67D1/00 B67D1/04 B67D1/07 B67D1/08 B67D1/14 B67D5/02 B67D5/56 B67D5/66 B67D7/02 B67D7/08 B67D7/12 B67D7/74 B67D7/78 B67D7/84 B67D7/86 F25C5/00 F25D23/12 G06F3/041 G06F3/046 G06K11/06 G07F13/06 (Advanced/Invention); A23L2/00 B05B7/02 B65D5/56 B67D1/00 B67D7/74 B67D7/78 F25C5/00 F25D23/12 G06F3/041 G07F13/06 (Core/Invention); B65D B67D (Subclass/Invention)

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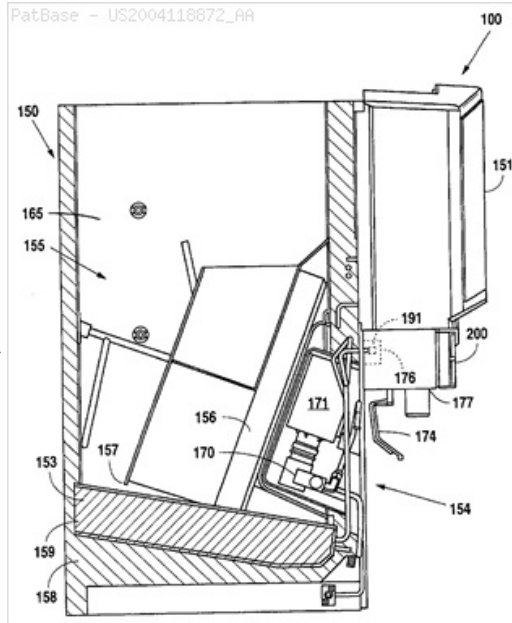
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**Family:**

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RU2297385 C2	20070420	RU20050109919	20031002
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US2010024890 AA	20100204	US20090587261	20091005

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US2010033446 AA	20100211	US20090587271	20091005
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US7975989 BB	20110712	US20090587278	20091005
WO04030438 A2	20040415	WO2003IB05093	20031002
WO04030438 A3	20041111	WO2003IB05093	20031002

Priority:

US20020416024	20021004	US20020416024P	20021004	US20030441990P	20030122
CA20032501297	20031002	CA20032737132	20031002	CA20032737138	20031002
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Probable Assignee: LANCER PARTNERSHIP LTD

Assignee(s): (std): LANCER PARTNERSHIP LTD ; LANSER PARTNERSHIP LTD

Assignee(s): ROMANYSZYN ADRIAN M ; ROSALES ROBERTO ; SCHROEDER ALFRED A ; SUDOLCAN PAUL S

Inventor(s): (std): ADRIAN M ROMANYSZYN ; ALFRED A SCHROEDER ; PAUL S SUDOLCAN ; ROBERTO ROMANYSZYN ADRIAN M SU ; ROBERTO ROSALES ; ROMANYSZYN ADRIAN M ; ROSALES ROBERTO ; SCHROEDER ALFRED A ; SUDOLCAN PAUL S ; SUDOLCAN PAUL S ; SHREDER AL FRED A ; ROMANISTSIN ANDRIAN M

Inventor(s): SUDOLCAN PAUL' S. ; SHREDER AL'FRED A. ; SUDOLCAN PAUL ; SCHROEDER ALFRED ; ROMANYSZYN ADRIAN M SUDOLCAN PAUL S SCHROEDER ALFR ; ROMANYSZYN ADRIAN

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP; MASUI CHUJI; TOMITA HIROYUKI; SHAMOTO ICHIO; KOBAYASHI YASUSHI; KANDA FUJIHIRO; CHIBA AKIO; ONO SHINJIRO; HOSHINO OSAMU; LAW OFFICES OF CHRISTOPHER L MAKAY; CHRISTOPHER L

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

Title: SYSTEM FOR DISPENSING METERED VOLUMES OF HEATED WATER TO THE BREW **CHAMBER** OF A SINGLE SERVE **BEVERAGE** BREWER

Abstract: A system for dispensing a metered volume of heated water to the brew **chamber** of a single serve **beverage dispenser**. The system includes a storage tank for containing a supply of unheated water and a dispensing tank. A delivery line communicates with the brew **chamber** and with the dispensing tank at an intermediate **level** demarcating the interior of dispensing tank into upper and lower compartment. The volume of the upper compartment is equal to the metered volume. A vent valve communicates via a vent line with the upper compartment. A supply line connects the storage tank to the lower compartment. An air **pump** is arranged to deliver pressurized air to the upper compartment. A water **pump** in the supply line is arranged to deliver water from the storage tank to the lower compartment. A heater for heating water received in the dispensing tank. A sensing mechanism for generating **control** signals indicative of the **level** and temperature of water in the dispensing tank. A **controller** enabled by **control** signals generated by the sensing means and operative in response to a brew signal for operating the air and water **pumps** in conjunction with the opening and closure of the vent valve to fill the upper compartment with heated water displaced from the lower compartment and to discharge the thus displaced heated water from the upper compartment to the brew **chamber**.

Classifications:

International (IPC 8-9): A47J31/00 A47J31/24 A47J31/32 A47J31/40 A47J31/44 A47J31/46 A47J31/56 B67D1/08

B67D1/12 (Advanced/Invention);

A47J31/24 A47J31/32 A47J31/40 A47J31/56 (Advanced/Non-invention);

A47J31/00 A47J31/24 A47J31/40 A47J31/44 (Core/Invention);

A47J (Subclass/Invention)

International (IPC 1-7): A41J31/32 A47J31/00 A47J31/32 A47J31/40 A47J31/56

CPC: A47J31/402 A47J31/32 A47J31/56

European: A47J31/32 A47J31/40D A47J31/56

US: 99/279 99/280 99/283 99/300 99/302R 99/305

JP F-Term: 3E082 3E082/AA02 3E082/BB01 3E082/CC01

3E082/CC03 3E082/DD05 3E082/EE01 4B004 4B004/AA11

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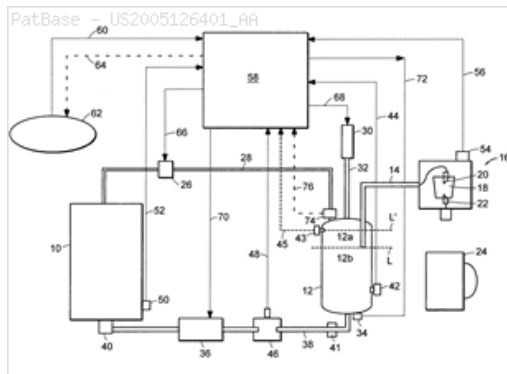
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JP F-Index: A47J31/32 A47J31/40 A47J31/40/107 A47J31/46 A47J31/56 B67D1/08/A B67D1/12



Family:

Publication number	Publication date	Application number	Application date
AT387129 E	20080315	AT20040813363T	20041207
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US2006000363 AA	20060105	US20040832474	20040426
US7398726 BB	20080715	US20040005161	20041206
US7523695 BB	20090428	US20040832474	20040426
VN7222 A1	20080925	VN20060001133	20041207
WO05060800 A1	20050707	WO2004US41037	20041207

Priority:

US20030734657 20031212 US20040832474 20040426 US20040005161 20041206
WO2004US41037 20041207

Probable Assignee: KEURIG GREEN MOUNTAIN INC

Assignee(s): (std): STREETER RICHARD B ; LAZARIS NICHOLAS G ; SQUIRES CHARLES F ; KEURIG INC ; JACOBS WILLIAM T

Assignee(s): JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; KEURIG GREEN MOUNTAIN INC ; KEURIG INC101 EDGEWATER DRIVEWAKEFIELDMA01880US ; KEURIG GREEN MOUNTAIN INC33 COFFEE LANEWATERBURYVT05676-8900US ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; GREEN MOUNTAIN COFFEE ROASTERS INC ; GREEN MOUNTAIN COFFEE ROASTERS INC33 COFFEE LANEWATERBURYVT05676US

Inventor(s): (std): LAZARIS NICHOLAS ; JACOBS WILLIAM ; SQUIRES CHARLES ; STREETER RICHARD B JACOBS WILL ; STREETER RICHARD B ; SQUIRES CHARLES F ; LAZARIS NICHOLAS G ; JACOBS WILLIAM T

Inventor(s): CHARLES F SQUIRES ; STREETER RICHARD ; STREETER RICHARD B JACOBS WILLIAM T LAZARIS NICHOL ; STREETER RICHARD BUS ; WILLIAM T JACOBS ; SQUIRES CHARLES FUS ; JACOBS WILLIAM TUS ; LAZARIS NICHOLAS GUS ; NICHOLAS G LAZARIS ; RICHARD B STREETER

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; FETHERSTONHAUGH AND CO; ROBIC; SMART AND BIGGAR; AJELLO MICHAEL JOHN ET AL; WOLF GREENFIELD AND SACKS PC, FEDERAL RESERVE PLAZA; WOLF GREENFIELD AND SACKS PC FEDERAL RESERVE PLAZA; ARLENE J POWERS GAUTHIER AND CONNORS LLP; WOLF GREENFIELD AND SACKS PC

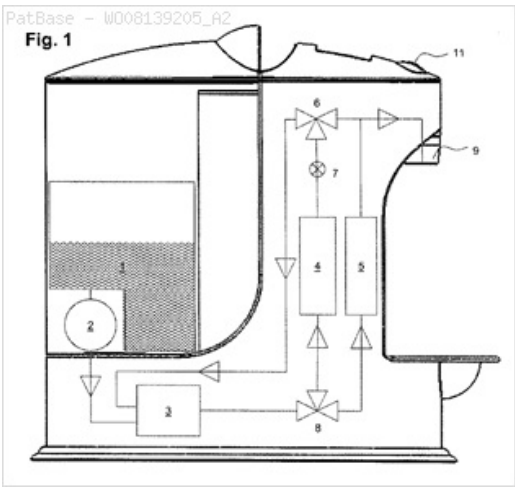
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Title: ELECTRICAL APPLIANCES

Abstract: An electric flow-through liquid **dispenser** including means for avoiding retaining liquid between the dispensing outlet and a heater or cooler. Instead, the liquid may be recirculated through the heater or cooler in the next dispensing operation. Alternatively, the liquid may be evacuated before the next dispensing operation. Alternatively, the heater or cooler may be disposed immediately behind the outlet, so that the retained volume of liquid is minimized. A flow-through heating apparatus comprising a heated flow path and a downstream depressurising means is also disclosed. Also disclosed is a superheated steam generator using a flow- through heater.

Classifications:

International (IPC 8-9): A47J27/21 A47J31/34 A47J31/46 A47J31/54 F22G1/16 F22G7/00 F24H1/12 F24H9/00 F24H9/20 H05B1/02 (Advanced/Invention); A47J27/21 A47J31/44 F22G1/00 F24H9/20 H05B1/02 (Core/Invention) **CPC:** A47J31/542 A47J31/46 A47J2201/00 F24H1/162 F24H9/2028 A47J27/21083 A47J31/545 H05B1/0269 A47J31/34 F22B1/28 **European:** A47J27/21B4B A47J31/34 A47J31/46 A47J31/54A A47J31/54A1 F22B1/28 F24H1/16B F24H9/20A2D H05B1/02B2B2 K47J201/00



Family:

Publication number	Publication date	Application number	Application date
CN101743438 A	20100616	CN200880024955	20080515
CN201401779 Y	20100210	CN200820133552U	20080516
EP2162676 A2	20100317	EP20080750624	20080515
EP2481329 A1	20120801	EP20120164328	20080515
GB200709432 A0	20070627	GB20070009432	20070516
GB200718521 A0	20071031	GB20070018521	20070921
GB200722934 A0	20080102	GB20070022934	20071122
GB2452981 A1	20090325	GB20070018521	20070921
GB2452981 B2	20121017	GB20070018521	20070921
WO08139205 A2	20081120	WO2008GB01692	20080515
WO08139205 A3	20090108	WO2008GB01692	20080515

Priority:

GB20070009432 20070516 GB20070018521 20070921 GB20070022934 20071122
EP20080750624 20080515 WO2008GB01692 20080515

Probable Assignee: OTTER CONTROLS LTD

Assignee(s): (std): COLLINSON MICHAEL ; GAETA ANTONIO MARTIN ; KLOPPERS GRADUS JOHANNES ; OTTER CONTROLS LTD ; SMITH DAVID ANDREW ; OTTER CONTROLS LTD GB

Assignee(s): OTTER CONTROLS LIMITED

Inventor(s): (std): ANDREW SMITH DAVID ; COLLINSON MICHAEL ; GAETA ANTONIO MARTIN ; JOHANNES KLOPPERS GRADUS ; KLOPPERS GRADUS JOHANNES ; MARTIN GAETA ANTONIO ; MICHAEL COLLINSON ; SMITH DAVID ANDREW ; SMITH DAVID ; SMITH DAVEY ANDREW ; GAETA ANTONIO ; CRIMSON MARSHALL ; CLOPES GRADUS JOHANNES

Inventor(s): DAVID ANDREW SMITH ; ANTONIO MARTIN GAETA ; MARSHALL CRIMSON ; GRADUS JOHANNES CLOPES ; DAVEY ANDREW SMITH ; GRADUS JOHANNES KLOPPERS

Agent(s): CROSS JAMES PETER ARCHIBALD; CROSS JAMES P A

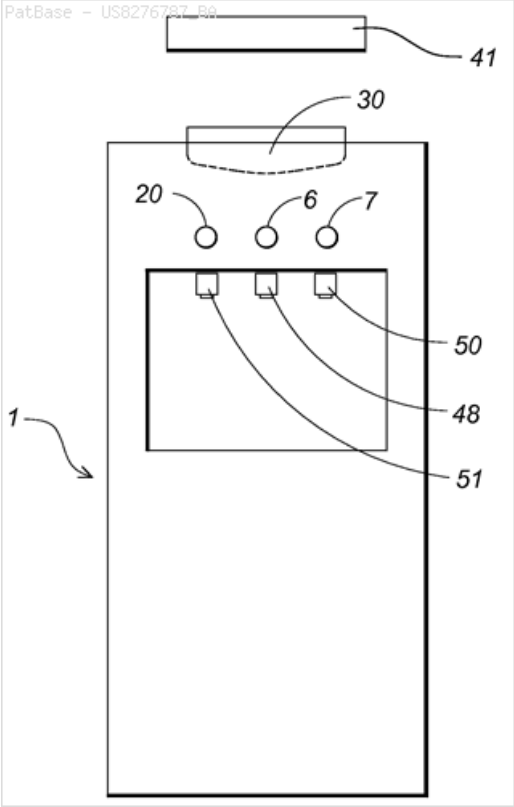
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Title: COMBINATION BEVERAGE AND WATER DISPENSER

Abstract: A combination beverage and water dispenser includes a housing having a liquid-beverage-concentrate storage reservoir, a hot water storage tank and a cold water storage tank received therein. The cold water storage tank is in fluid communication with both a domestic water supply line and a dispensing cavity for receiving an inverted water bottle. Level sensors within the cold water storage tank communicate with a control valve on the domestic water supply line to control incoming domestic water supply. Alternatively, the domestic water supply may be disabled and a water bottle may be installed within the cavity to use bottled water in lieu of domestic water, if desired. The hot water tank, the cold water tank and the beverage concentrate reservoir are in selective communication with a mixing valve wherein hot or cold water and beverage concentrate are mixed to produce a desired hot or cold beverage. Accordingly, a user can instantly dispense a desired amount of beverage using either domestic water or bottled water.

Classifications:

International (IPC 8-9): B67D7/80 (Advanced/Invention)
CPC: B67D1/0004 B67D1/0009 B67D1/0014 B67D1/0021 B67D1/004 B67D1/0043 B67D1/0858 B67D1/0895 B67D3/0009 B67D3/0012 B67D3/0035
European: B67D1/00E2 B67D1/00E4 B67D1/00E6 B67D1/00F4 B67D1/00F6 B67D1/00H2 B67D1/08D2 B67D1/08L B67D3/00C B67D3/00D B67D3/00H4
US: 222/129.1 222/129.4 222/145.5 222/146.1 222/146.2 222/146.6 222/64 99/275 99/323.3



Family:

Publication number	Publication date	Application number	Application date
US8276787 BA	20121002	US20080332076	20081210

Priority:

US20070012532P 20071210 US20080332076 20081210

Probable Assignee: GREMILLION PAUL J

Assignee(s): (std): GREMILLION PAUL J ; TRIOLA BENJAMIN ; TRIOLA GARY V ; TRIOLA JANE

Inventor(s): (std): GREMILLION PAUL J ; TRIOLA BENJAMIN ; TRIOLA GARY V ; TRIOLA JANE

Agent(s): KENNETH L

Title: Device for issuing **beverages**

Abstract: Source: EP2236198A3 [DE] Vorrichtung (1) zur Ausgabe von Getraenken, mit einem Wassertank (2), der ueber eine **Pumpe** (4) mit einem Karbonisator (9) verbunden ist, der an eine Zuleitung (19) fuer CO₂ angeschlossen ist und ein Gehaeuse (21, 34) umfasst, in dem eine mit CO₂ und karbonisiertem Wasser befuellte Kammer (26, 27) ausgebildet ist, wobei der Teil (27) der Kammer mit karbonisiertem Wasser an einem Ablauf (31) angeschlossen ist, wobei eine Einleitung des aus dem Wassertank (2) gefoerierten Wassers ueber eine Duese (23) erfolgt, die das Wasser durch den mit CO₂ befuellten Teil (26) der Kammer in das karbonisierte Wasser einspritzt.

Classifications:

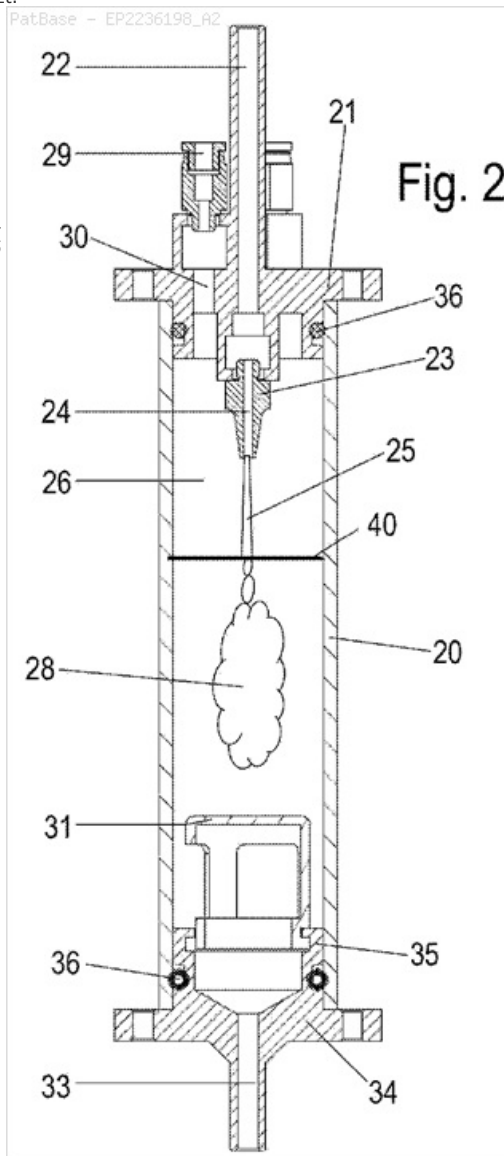
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CPC: B01F3/04808 B01F3/0473 B01F3/04758 B01F2003/04893 B67D1/0057

European: B01F3/04C6 B01F3/04C6A6 B01F3/04C8G B67D1/00H4 L01F3/04C20B6

JP F-Term: 3E082 3E082/AA02 3E082/AA04 3E082/BB02 3E082/DD01 3E082/FF09 4B017 4B017/LC09 4B017/LK04 4B017/LL09 4B017/LP10 4B017/LT01 4B017/LT02 4B117 4B117/LC14 4B117/LK04 4B117/LL09 4B117/LP11 4B117/LT01 4B117/LT02 4G035 4G035/AA07 4G035/AA12 4G035/AC15 4G035/AE13 4G035/AE19

JP F-Index: A23L2/00/T A23L2/52 A23L2/54/101 B01F1/00/D B01F5/02/A B67D1/04/Z



Family:

Publication number	Publication date	Application number	Application date
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EP2236198 A2	20101006	EP20100155542	20100304
EP2236198 A3	20120711	EP20100155542	20100304
JP2010240648 A2	20101028	JP20100086282	20100402
KR20100110269 A	20101012	KR20100029048	20100331
RU2010112277 A	20111010	RU20100112277	20100331

Priority:

DE200920002027U 20090402

Probable Assignee: MELITTA HAUSHALTSPRODUKTE

Assignee(s): (std): MELITA HAUSCHALLTS PRODUKTE GMBH AND CO KG ; MELITA HAUSCHALLTS PRODUKTE GMBH AND CO KOMMANDITGESELLSCHAFT ; MELITTA HAUSHALTSPRODUKTE

Assignee(s): MELITTA HAUSHALTSPRODUKTE GMBH AND CO KG ; MELITTA HAUSHALTSPRODUKTE GMBH AND CO KOMMANDITGESELLSCHAFT ; MELITTA EUROPA GMBH AND CO KG

Inventor(s): (std): GROTE OLIVER ; OLIVER GROTE

Agent(s): DANTZ JAN HENNING

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 PL PT RO RS SE SI SK SM TR

Title: HOT DAIRY-BASED BEVERAGE DISPENSER

Abstract: A dispensing unit for dispensing hot, dairy-based beverages has a self-contained refrigerated unit located above a venturi-type emulsification foaming head. The dispensing unit has particular applicability to the dispensation of foamy, hot milk for use in beverages such as cappuccino and nonfoamy, hot milk for use in beverages such as coffee latte, hot chocolate, and other hot dairy-based beverages. The refrigeration unit accommodates a "bag in box" cold milk storage container of the type widely used in food service establishments. The dispensing unit employs a pinch valve that avoids direct contact between the milk and the valve components. The refrigerated milk is stored above the level of the foamer head so that the flow of milk results partially from gravitational force on the milk, and is not totally dependent upon venturi suction created in the foamer head. Also, selective actuation of beverage choice switches generates commands to produce different beverages at different temperatures. This is achieved by raising or lowering the steam temperature from a standby temperature as an immediate response to depression of a selection button. Air utilized in creating a foamy hot milk mixture may be supplied at a positive pressure above atmospheric pressure, rather than merely through venturi suction from the ambient atmosphere. In addition, following the dispensation of each portion of a beverage, the system automatically discharges a quantity of purging water to clean out the air line and air nozzle, so as to avoid contamination of those components by contact with milk flowing through the foamer head.

Classifications:

International (IPC 8-9): A01J11/00 A47J31/40 A47J31/41 A47J31/44 A47J43/04 A47J43/07 B01F3/08 B65D81/18 B67D1/04 B67D1/08 B67D1/12 B67D3/00 B67D3/04 G07F13/00 (Advanced/Invention); G07F13/00 (Advanced/Non-invention);

A01J11/00 A47J31/40 A47J31/44 A47J43/04 B01F3/08 B65D81/18 B67D1/00 B67D3/00 G07F13/00 (Core/Invention)

International (IPC 1-7): A47J31/40 A47J31/41 A47J31/44 A47J43/04 B01F3/08 B65D81/18 B67D1/04 B67D1/08 B67D1/12 B67D3/00 B67D3/04 C12G1/06 G07F13/00

CPC: A47J31/4485

European: A47J31/44D

US: 261/66 261/72.1 261/721 426/477 99/281 99/293 99/323.1 99/323.3 99/452 99/453 99/4520

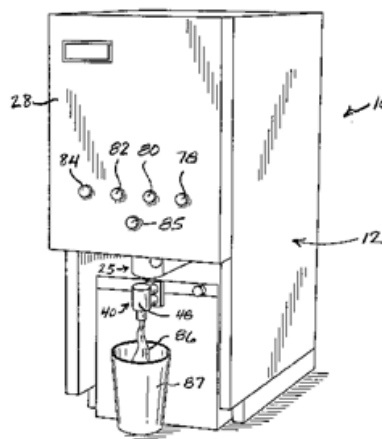
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JP F-Index: A47J43/07 B67D1/04/B B67D1/04/D B67D1/08/A B67D1/12 B67D3/00/J B67D3/00/Z B67D3/04/A

PatBase - US2003232115_AA

Patent Application Publication Doc. 18, 2003 Sheet 1 of 4 US 2003/0232115 A1

FIG. 1

**Family:**

Publication number	Publication date	Application number	Application date
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CA2431180 AA	20031218	CA20032431180	20030605
CA2431180 C	20110104	CA20032431180	20030605
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US7252034 BA	20070807	US20060346088	20060202

Priority:

US20020175578 20020618 CA20032431180 20030605 US20060346088 20060202

Probable Assignee: ECKENHAUSEN ROLAND B

Assignee(s): (std): ECKENHAUSEN ROLAND B ; ECKENHAUSEN STEVEN C ; ROLAND B ECKENHAUSEN

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Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Title: COOLING SYSTEM FOR ALCOHOL **BEVERAGE** DISPENSING APPARATUS

Abstract: A beer or like alcohol **beverage** dispensing apparatus has a keg for containing the **beverage**. A keg dispensing device is connected through a top portion of the keg and extends to a bottom portion of the keg to draw the **beverage** from the keg adjacent the bottom portion. The apparatus has a cooling plate in heat transfer contacting relation with the bottom of the keg and also has a Peltier thermoelectric device connected to the cooling plate so as to extract heat from the cooling plate and thereby extract heat from the keg. The cooling apparatus has a first temperature **sensor**, mounted in heat sensing relation with a bottom portion of the keg and a second temperature **sensor** mounted in heat sensing relation with an upper portion of the keg. A **controller controls** the cooling apparatus in response to the first and second temperature **sensors** so as to **control** the operation of the cooling apparatus to extract heat from the bottom portion of the keg to lower and maintain the temperature of the **beverage** contained in the keg to a desired **beverage** serving temperature. The keg may comprise either steel, stainless steel or copper so as to provide a stratified cooling effect or may comprise aluminum so as to initially cool the **beverage** in the container in a more homogeneous manner.

Classifications:

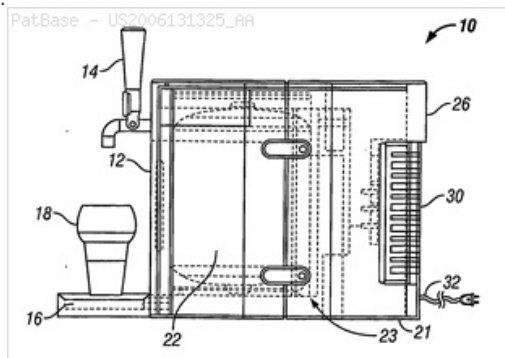
International (IPC 8-9): B67D1/04 B67D1/08 B67D5/08 B67D7/08 F25B21/02 (Advanced/Invention); B67D1/00 B67D7/08 F25B21/02 (Core/Invention); B67D (Subclass/Invention)

International (IPC 1-7): B67D1/08

CPC: B67D1/0462 B67D1/0857 B67D1/0861 F25D31/006 F25D2331/802 F25D2700/16

European: B67D1/04E B67D1/08D B67D1/08D2C F25D31/00H R25D331/802 R25D700/16

US: 222/54 222/54P



Family:

Publication number	Publication date	Application number	Application date
AU2003302628 AA	20040623	AU20030302628	20031125
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Priority:

GB20020027923 20021129

GB20020027926 20021129

WO2003IB05403 20031125

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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 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