

Search history

Search 1: TAC=(brew and chamber) (Results 770)
Search 2: 1 and PD<20131120 (Results 594)
Search 3: 2 and valve (Results 258)
Search 4: 3 and (passageway* or hole*) (Results 68)

Title: BEVERAGE DISPENSING MACHINE AND OPERATING METHOD

Abstract: Source: US2010031826A The present invention relates to a beverage dispensing machine, for instance a coffee machine, provided with a **brewing chamber** and at least one **valve** for totally and/or partially blocking the beverage from exiting the **chamber**. Advantageously, the **valve** is an electrovalve, in particular a piezoelectric **valve**, which is continuously controllable to adjust the beverage flow rate being permitted to exit the **chamber**.

Classifications:

International (IPC 8-9): A23F5/26 A47J A47J31/00 A47J31/40 A47J31/44 A47J31/46 G05D7/00 G07F13/00

G07F13/06 (Advanced/Invention);

A47J31/00 A47J31/44 G05D7/00 G07F13/00 (Core/Invention);

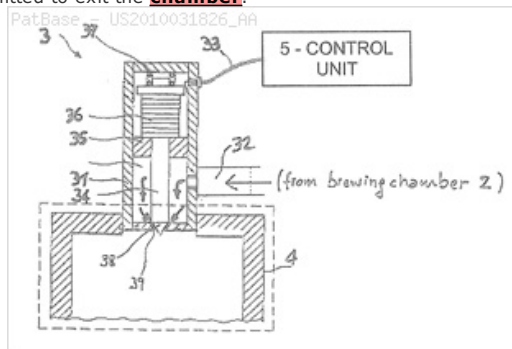
A47J (Subclass/Invention)

International (IPC 1-7): A47J31/46

CPC: A47J31/465

European: A47J31/46S2

US: 426/231 426/433 700/283 700/283S 99/279 99/279P 99/280 99/283 99/297 99/299 99/323.3 99/323.300S

**Family:**

Publication number	Publication date	Application number	Application date
AR064167 AA	20090318	AR2007P105462	20071206
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Priority:

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WO2007IB03770 20071205		

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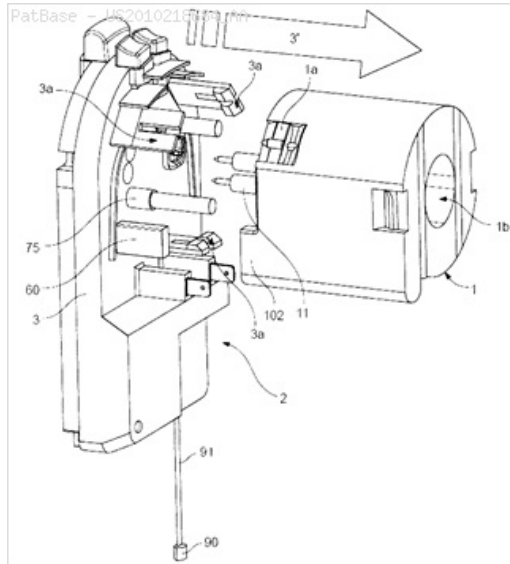
Assignee(s): REHVENDORS SERVISIZ SPA ; REH VENDORS SPA
Inventor(s): (std): LUCA DOGLIONI MAJER ; MAJER LUCA DOGLIONI ; DOL ONI MAJER LUKA ; DOGLIONI MAJER LUCA
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Agent(s): PATENT ATTORNEY SERVICES; ROBIC; LUZ CLEMENCIA DE PAEZ; GODEMEYER BLUM LENZE
PATENTANWAELTE PARTNERSCHAFT MBB; GISLON GABRIELE; WOLFF BREGMAN AND GOLLER; MORI
HIROYUKI; PYPRUS PTE LTD; HESS PATENT LAW FIRM PC
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
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TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Abstract: Source: US2010218844A An in-line heating device for a liquid food or beverage preparation machine in which liquid is circulated through the heating device and then guided into a **brewing chamber**. This heating device includes a thermoblock with a metal mass that incorporates an inlet, an outlet and a heating **chamber** extending therebetween to form a passage for guiding the liquid circulating through the mass, with the mass arranged to accumulate heat and to supply heat to the liquid; and one or more electric components that are rigidly secured onto or into the thermoblock and that are connected to a printed circuit board or a flex-print arranged to control the thermoblock. The electric components are rigidly connected to the printed circuit board or flex-print, in particular via rigid connector pins or blades or rigid plug and socket members.

International (c.s-9): A01K63/06 A23L1/00 A47J A47J27/00
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A47J31/32 A47J31/34 A47J31/36 A47J31/40 A47J31/41 A47J31/44
A47J31/46 A47J31/52 A47J31/54 A47J31/56 A47J31/58 A47J36/24
A47J43/042 A47J43/27 B67D1/04 B67D1/10 B67D3/00 F04B17/04
F04B53/00 F04B53/02 F16L27/10 F24H1/00 F24H1/10 F24H1/14
F24H9/20 G01F1/00 G01F1/56 G09F13/18 G09F13/22 H01H37/52
H01R12/55 H01R12/72 H01R15/11 H05B1/00 H05B1/02 H05B3/02
H05B3/78 H05K1/00 H05K1/18 H05K3/30 (Advanced/Invention);
A47J31/36 A47J31/40 A47J31/54 A47J31/56 F24H1/14
F24H9/20 (Advanced/Non-invention);
A47J031/24 A47J031/36 A47J31/24 A47J31/40 A47J31/44 F04B17/03
F16L27/00 F24H1/00 F24H1/10 F24H1/12 F24H9/20 G01F1/00
G09F13/22 H01R13/631 H05K1/00 (Core/Invention);
A47J31/00 A47J43/042 A47J43/27 (Core/Non-invention);
A47J F04B F16L F24H G09F H01R (Subclass/Invention)

CPC: A47J31/4437 H01R12/718 F24H1/105 H01H37/52 A47J31/441
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H01R13/111 A47J31/542 A47J31/545 F24H1/101 F24H9/2028
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H05K2201/10181 H05K2201/10189 H05K2201/10424 H05K2201/105
H05K2201/2036 A47J31/36

US: 1/1 174/254 174/254S 219/494 219/494S 219/538 219/538S 219/628 250/577 29/469 337/1 392/485 392/485S 392/489 392/491 392/492 392/496 392/496S 417/410.1 73/861 73/861S 99/275 99/275P 99/279 99/279S 99/280 99/281 99/281P 99/285 99/285P 99/286 99/288 99/288P 99/288S 99/289.00RS 99/289R 99/292 99/292P 99/295 99/295P 99/295S 99/297 99/300 99/302.00RP 99/302.00RS 99/302P 99/302R 99/307



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Assignee(s): NESTEC SA ; NESTEC SA

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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

Title: BEVERAGE DISPENSER

Abstract: Source: US2011200719A The present invention relates to a beverage dispenser that comprises a hot water tank; a **brew** basket; a sprayhead for spraying hot water from said water tank to said **brew** basket in order to **brew** said **brewable** substance; a container for storing said freshly **brewed** liquid concentrate drips from said **brew** basket; a heat exchanger immersed in hot water inside said water tank for reheating said freshly **brewed** liquid concentrate when pumped from said container; a source of flavor ingredients preferably packed in disposable bag-in-box; a mixer and whipper for mixing and whipping simultaneously all of the following items: said reheated freshly **brewed** concentrate discharged from said heat exchanger, said flavor ingredients and hot water from said hot water tank to form a hot freshly **brewed** beverage mixed with flavored ingredients, filled with air bubbles and with a foamy topping; and a control system for activating said beverage dispenser.

Classifications:

International (IPC 8-9): A23F3/18 A47J31/00 A47J31/40 A47J31/44 A47J31/46 G01N33/14 (Advanced/Invention);

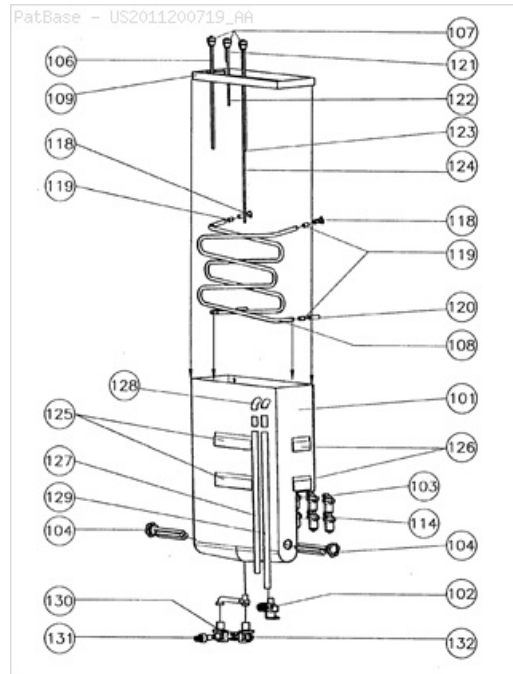
A23F3/18 A47J31/44 (Core/Invention);

A47J31/40 (Core/Non-invention)

CPC: A47J31/002 A47J31/467

European: A47J31/00M A47J31/46S4

US: 426/231 426/231P 426/431 426/431S 99/290 99/290S 99/295 99/304 99/306 99/315



Family:

Publication number	Publication date	Application number	Application date
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SG159406 A1	20100330	SG20080062341	20080821
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TWI377038 B	20121121	TW20080147424	20081205
US2011200719 AA	20110818	US20110027781	20110215
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WO10021532 A1	20100225	WO2008MY00085	20080819

Priority:

US20110027781 20110215 WO2008MY00085 20080819

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Assignee(s): (std): REZEKI SADELI ; SADELI REZEKI

Assignee(s): SADELI REZEKIID

Inventor(s): (std): SADELI REZEKI ; REZEKI SADELI

Agent(s): MASCHOFF BRENNAN

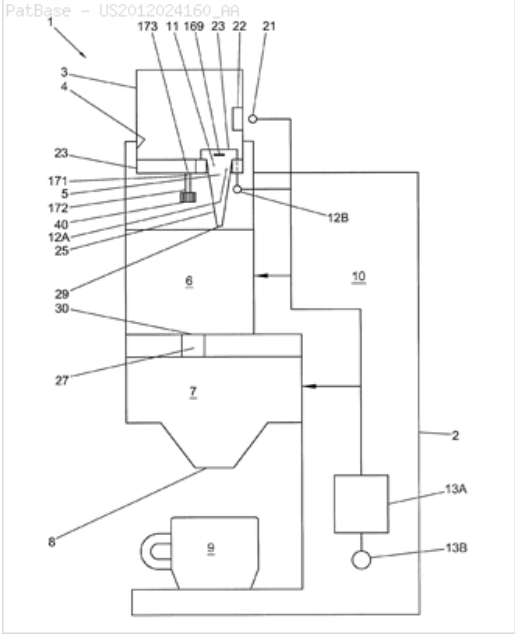
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA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

Abstract: Source: US2012024160A A coffee bean packaging cartridge for holding and supplying multiple servings of coffee beans can be connected to a coffee beverage system. The cartridge includes a container having an outer wall defining an interior volume and an opening at one end thereof. A permanent, preferably non-removable closure member is fitted to the one end of the container and substantially covers the opening. An exit passage in the closure member, defines a coffee bean outlet, for transferring coffee beans from the interior volume. The closure member further has relatively movable closing means for selectively closing the exit passage to reduce exposure of the coffee bean contents to surrounding air. The cartridge further includes connecting means for connecting the cartridge to a coffee beverage system. There is also provided a coffee beverage system that includes the coffee bean packaging cartridge as defined above and at least a dosing device and a grinding mechanism. The dosing device may includes a metering **chamber** for receiving a portion of coffee beans corresponding to an amount necessary for preparing a single serving of coffee beverage.

Classifications:

International (ipc 8-9): A23F5/00 A23F5/08 A23F5/26 A23L1/28 A47J31/00 A47J31/057 A47J31/06 A47J31/10 A47J31/34 A47J31/36 A47J31/40 A47J31/42 A47J31/44 A47J31/46 A47J42/40 A47J42/42 A47J42/50 B65B1/04 B65B1/12 B65B3/04 B65D83/04 B65D83/06 B65D85/00 B65D85/804 (Advanced/Invention); A47J31/36 A47J31/52 B65D85/804 (Advanced/Non-invention); A47J31/40 A47J31/42 A47J42/00 (Core/Invention)
International (ipc 1-7): A47J31/40 A47J31/42 A47J42/50
CPC: A23F5/26 B65B1/12 A23F5/262 A47J31/404 A47J31/3614 A47J31/52 B65D85/8043 A47J31/42 A47J31/44 A47J42/00 A47J31/00 A47J31/40 A47J42/50
European: A47J31/40 A47J31/42 A47J42/50
US: 1/1 141/1 141/108 141/311R 141/331 141/344 141/386 141/67 241/6 426/115 426/115S 426/231 426/433 426/518 99/280 99/280P 99/285 99/286 99/289R



Family:

Publication number	Publication date	Application number	Application date
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US2015157166 AA	20150611	US20140333364	20140716
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Priority:

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Probable Assignee: DOUWE EGBERTS BV KONINKLL

Assignee(s): (std): DE GRAAFF GERBRAND KRISTIAAN ; DILLON CHARLES KEVIN ; DOUWE EGBERTS BV ; DOUWE EGBERTS BV KONINKLL ; GRAAFF GERBRAND KRISTIAAN ; KNEPPERS JOB LEONARDUS ; KNITEL JOSEPH THEODOOR ; KONINK DOUWE EGBERTS B V ; KONINK DOUWE EGBERTS BV ; KONINKL DOUWE EGBERTS BV ; KONINKLIJKE DOUWE EGBERTS BV ; MOORMAN CHRIS J M ; KONINKL PHILIPS ELECTRONICS NV ; MOORMAN KRISTIAAN JOHANNES MARIA ; KONINKLEJKE DAUVE EGBERTS BV ; KONINKLEJKE FILIPS ELEKTRONIKS N V ; KONINKLEJKE FILIPS ELEKTRONIKS NV ; KONINKL PHILIPS NV ; KONINKLEJKE DAUVE EGBERTS BV ; KONINKL PHILIPS ELECTRONICS NV ; SARA LEE DE NV ; VAN OS IVO ; VERSLUIJS RICHARD PATRICK ; SARA LEE DE B V ; SARA LEE ; SARA LEE DE BV ; PHILIPS ELECTRONICS N V KONINKLL ; ROYAL DUTCH PHILIPS ELECTRONICS LTD ; PHILIPS KONINKLL NV

Assignee(s): PHILIPS ELECTRONICS KONINKLL NV ; SARA LEE DE N V NULL ; PHILIPS ELECTRONIC KONINKLL NV ; SARA LEE DE N V ; KONINKLEJKE FILIPS ELEKTRONIKS NV ; KONINKLIJKE PHILIPS NV ; KONINKLIJKE DOUWE EGBERTS BV ; KONINKLIJKE DOUWE EGBERTS B V ; KONINKLIJKE PHILIPS ELECTRONIC N V ; KONINKLIJKE PHILIPS ELECTRONICS N V NULL ; KONINKLIJKE PHILIPS ELECTRONICS N V ; DOUWE EGBERTS KONINKLL BV

Inventor(s): (std): CHRISTIAAN JOHANNES MATRIA MOORMAN ; CHRISTIAN JOHANNES MARIA MOHRMAN ; GERBRAND KRISTIAAN DE GRAAF ; GERBRAND KRISTIAAN DE GRAAFF ; GRAAFF GERBRAND KRISTIAAN DE ; IVO OS VAN ; IVO VAN OS ; JOB LEONARDUS KNEPPERS ; KNITEL JOZEF TEODOR ; KRISTIAAN DE GRAAFF GERBRAND ; KRISTIAAN GRAAFF GERBRAND ; LEONARDUS KNEPPERS JOB ; MOORMAN KRISTIAAN JOHANNES MARIA ; MOORMAN CHRISTIAAN JOHANNES MATRIA ; MOORMAN CHRISTIAAN JOHANNES MARIA ; MORMAN KHRISTIAN JOKHANNES MARIJA ; OS IVO VAN ; PATRICK VERSLUIJS RICHARD ;

RICHARD PATRICK VERSLUIJS ; KNITEL JOSEPH THEODOOR ; CHARLES KEVIN DILLON ; CHRIS J M MOORMAN ; DE GRAAFF GERBRAND KRISTIAAN ; DE GRAF GERBRAND KRISTIAN ; VERSLEJS RIKHARD PATRIK ; MOORMAN KRISTIAN JOKHANNES MARIJA ; DILLON CHARL Z KEVIN ; DE GRAFF GERBRAND KRISTIAN ; CHRISTIAAN JOHANNES MARIA MOORMAN ; VERSLUIJS RICHARD PATRICK ; VAN OS IVO ; OS IVO ; MOORMAN CHRIS J M ; KNEPPERS JOB LEONARDUS ; GRAAFF GERBRAND KRISTIAAN ; GRAAF GERBRAND KRISTIAAN ; DILLON CHARLES KEVIN

Inventor(s):

KNITEL JOSEPH THEODOOR 3454 KJ ; MOORMAN CHRISTIAAN JOHANNES MARIA 5066 MJ ; VAN OS IVO 3811 MB ; KNEPPERS JOB LEONARDUS 2635 LC ; JOSEPH THEODOOR KNITEL ; VERSLUIJS RICHARD PATRICK 2645 GE ; CHRISTIAAN JOHANES MARIA MOORMAN ; DILLON CHARLES KEVIN BOTTISHAM ; DE GRAAFF GERBRAND KRISTIAAN 2182 DN

Agent(s):

DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO; JANSEN CORNELIS MARINUS; VO; DURAN LUIS ALFONSO; LAZCANO JESUS; CABINET BEAU DE LOMENIE; OKABE YUZURU; TAKAHASHI SEIICHIRO; OCHI TAKAO; MATSUI TAKAO; MATSUI MITSUO; HANDE MUMCUOGLU; FOLEY AND LARDNER LLP; HATZMANN M J; JANSEN C M

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

Title: HOT BEVERAGE BREWING SYSTEM AND USE THEREOF

Abstract: Source: US2012219686A In described embodiments, a hot liquid extraction system includes a vessel, a controllable steam and water source external from the vessel which heats the liquid of the corresponding vessel, a filter assembly disposed within the vessel operable to filter and remove a solid from the brewed beverage, and a valve to dispense the filtered beverage from the base of the brew vessel. Some embodiments include one or more valves operable to regulate water flow and steam into the brewing vessel, and a filter operable to separate a brewed liquid from a flavor base and to remove a spent flavor base from the system. Some embodiments include processor control of the system, allowing for operation tailored to individual user requirements that might be downloaded to the processor through various wired and non-wired interfaces.

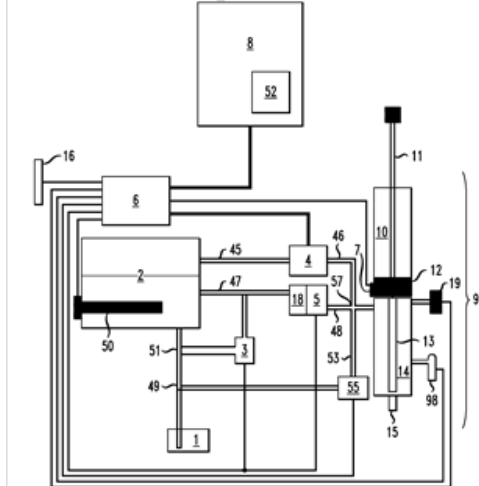
Classifications:

International (IPC 8-9): A23F3/18 A23F5/26 A47J31/00 A47J31/043 A47J31/053 A47J31/20 A47J31/24 A47J31/30 A47J31/44 A47J31/46 A47J31/54 (Advanced/Invention)

CPC: A47J31/46 A47J31/54 A47J31/30 A23F3/18 A23F5/262 A47J31/20 A47J31/24 A47J31/053 A47J31/043

US: 1/1 426/231 426/431 426/431P 99/287 99/292 99/293 99/294 99/294S 99/297 99/300 99/300S

PatBase - US2012219686 AA



Family:

Publication number	Publication date	Application number	Application date
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CN103687519 A	20140326	CN201280019948	20120224
CN103687519 B	20170630	CN201280019948	20120224
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US2017007065 AA	20170112	US20160242319	20160819
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US9072404 BB	20150707	US20120596866	20120828
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Priority:

US20110000447P 20110226	US20110447009P 20110226	US20120403095 20120223
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US20160242319 20160819		

Probable Assignee: ALPHA DOMINCHE HOLDINGS INC

Assignee(s): (std): ALPHA DOMINCHE HOLDINGS INC ; ALPHA DOMINCHE LTD ; ALPHA DOMINCHE LTD ; ALPHA DOMINCHE LTD ; BOMBECK CHRISTIAN ; LOEB SHOSHANA ; DODGE CASEY ; SALOMON ELI ; SMITH CASEY ; TILTON TYMER VON ; TILTON TYMER ; MANGOLD ADAM

Inventor(s): (std): BOMBECK CHRISTIAN ; DODGE CASEY ; LOEB SHOSHANA ; SALOMON ELI ; SMITH CASEY ; TILTON TYMER VON ; TILTON TYMER ; MANGOLD ADAM

Agent(s): OSLER HOSKIN AND HARCOURT LLP; WILLIAMS DAVID JOHN; MATTHEW D; PHILIPS RYTHUR AND WINCHESTER; PHILLIPS RYTHUR AND WINCHESTER

Designated states: AL AT 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

Title: ESPRESSO AND FRESH-BREW COFFEE BREWING UNIT

Abstract: Source: US2014150664A A **brewing** unit for making espresso (ES) and fresh-**brew** (FB) coffee, wherein the **brewing chamber** of a **brewing** assembly is supplied with water by a constant-frequency pump, and communicates with a first ES coffee outlet conduit, controlled by a calibrated **valve**, and a second FB coffee outlet conduit via a three-way COV (contact-operated) switch **valve**, which is formed in a compression piston for closing the **brewing chamber**, and is designed to be set to a normal open position, in which the first and second outlet conduit and a delivery manifold communicate with one another, and to switch, in use and in opposition to a spring, to a closed position, in which the second outlet conduit is closed, and the first outlet conduit communicates with the delivery manifold.

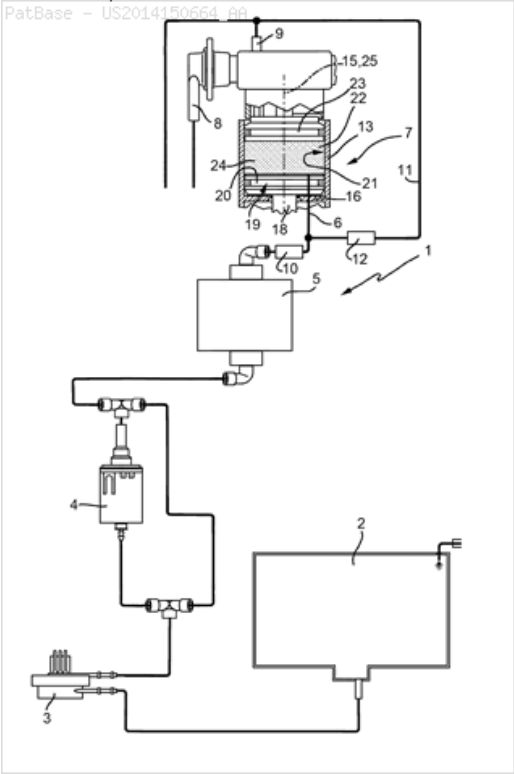
Classifications:

International (IPC 8-9): A47J31/06 A47J31/34 A47J31/36 A47J31/46 (Advanced/Invention)

CPC: A47J31/46 A47J31/0647 A47J31/36

European: A47J31/06M A47J31/36

US: 99/283



Family:

Publication number	Publication date	Application number	Application date
CN103607932 A	20140226	CN201280027278	20120406
CN103607932 B	20160120	CN201280027278	20120406
DE602012010343 D1	20151022	DE201260010343T	20120406
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JP5891294 B2	20160322	JP20140503270T	20120406
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US2014150664 AA	20140605	US20140176899	20140210
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WO12137185 A8	20121227	WO20121B51726	20120406

Priority:

EP20120722851 20120406 IT2011TO00313 20110406 WO20121B51726 20120406
US20140176899 20140210

Probable Assignee: N and W GLOBAL VENDING SPA

Assignee(s): (std): CORTI ROBERTO ; N and W GLOBAL VENDING S P A ; N and W GLOBAL VENDING SPA ; N END V GLOBAL VENDING S P A

Assignee(s): N END V GLOBAL VENDING SPA

Inventor(s): (std): CORTI ROBERTO ; KORTI ROBERTO

Agent(s): HAUCK PATENTANWALTSPARTNERSCHAFT MBB; GIANNINI MANUELA; UNGRIA JAVIER; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; JORIO PAOLO ET AL

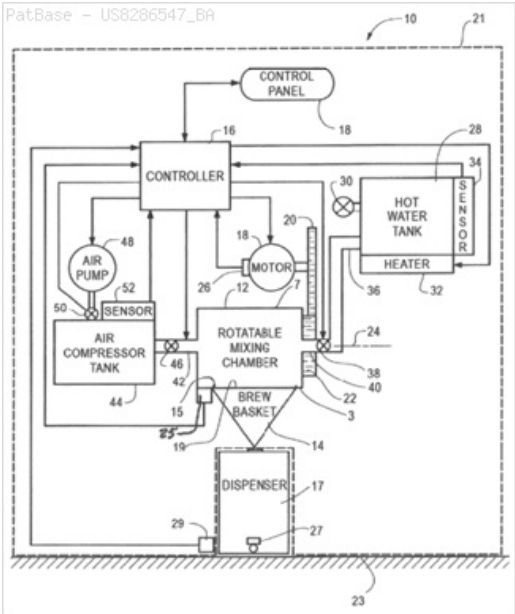
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Title: AUTOMATED FRENCH PRESS-LIKE QUALITY PRODUCING, HIGH VOLUME, AUTOMATED, ELECTRIC BEVERAGE MAKER

Abstract: Source: US8286547B A French press-like quality high volume, electrical, automatic beverage **brewer** (10) with a rotatable mixing **chamber** (12) for mixing water (109) from a hot water tank (28) with dry beverage ingredient (108) having a closed top (7) and an open bottom (3, 66) to which is releasably mounted a **brew** basket (14) with an open top (19) for fluid communication with the mixing **chamber** (12) through the open bottom (3, 66). Before mounting, the **brew** basket (14) is loaded with a filter (105) and dry beverage ingredient (109). The mixing **chamber** (12) with the **brew** basket (14) attached is then automatically turned upside down (Fig. 6) to dump the dry beverage ingredient (109) out of the filter (105) and onto the closed top (7) of the rotatable mixing **chamber** (12). A preselected amount of water (109) is then infused into the mixing **chamber** (12) to a level beneath the open bottom (3) and filter (105) and onto the dry beverage ingredient (109) for mixing therewith. After a preselected mixing time period is passed the mixing **chamber** (12) and mounted **brew** basket (14) is automatically turned right side up to pass the beverage (110) through the filter (105) and out of the drain **hole** (90) of the **brew** basket (14). After the mixing **chamber** (12) has been returned to an upright position, pressurized air (44,46,48) is automatically injected into the mixing **chamber** (12) to hasten the passage of beverage (110) through the filter (105) and out of the drain **hole** (90).

Classifications:

International (ipc 8-9): A23F5/18 A23F5/26 A47J31/00
A47J31/18 (Advanced/Invention)
CPC: A23F5/18 A47J31/18 A47J31/20
US: 99/280 99/283 99/289D



Family:

Publication number	Publication date	Application number	Application date
US8286547 BA	20121016	US20090469923	20090521
US9668496 BA	20170606	US20090470040	20090521

Priority:

US20080055797P 20080523 US20090469923 20090521 US20090470040 20090521

Probable Assignee: FOOD EQUIPMENT TECHNOLOGIES CO INC

Assignee(s): (std): FOOD EQUIP TECHNOLOGIES CO INC ; LASSOTA ZBIGNIEW G ; FOOD EQUIPMENT TECHNOLOGIES CO INC ; LASSOTA ZBINIEW G

Assignee(s): FOOD EQUIPMENT TECHNOLOGIES CO INC ; FOOD EQUIPMENT TECHNOLOGIES COMPANY INC

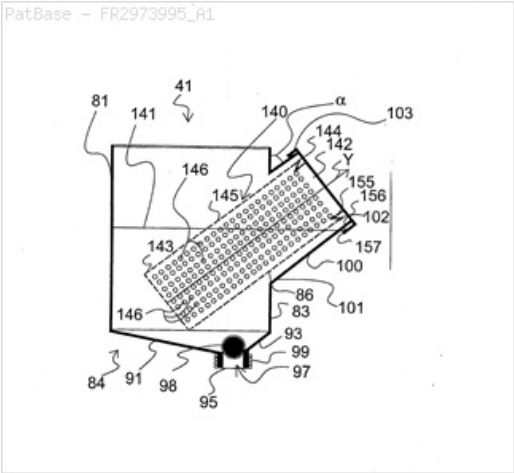
Inventor(s): (std): LASSOTA ZBIGNIEW G ; LASSOTA ZBINIEW G

Agent(s): POTTHAST AND ASSOCIATES; JAMES W

Title: ENSEMBLE MACHINE A THE ET CARTOUCHE FILTRANTE, ET CARTOUCHE FILTRANTE ASSOCIEE

Abstract: The assembly of a tea making machine and an elongated filter cartridge (140), useful to contain the tea to be infused, is claimed. The tea making machine comprises an infusion **chamber** (41), a hollow guiding conduit inclined with respect to a vertical wall of the infusion **chamber**, and a heating **chamber** positioned inside a heating module. The guiding conduit has a first end emerging inside the infusion **chamber** and a second end emerging towards outside of the infusion **chamber**. The filter cartridge has a longitudinal direction, which is inclined with respect to a surface (141) of water. The assembly of a tea making machine and an elongated filter cartridge (140), useful to contain the tea to be infused, is claimed. The tea making machine comprises an infusion **chamber** (41), a hollow guiding conduit inclined with respect to a vertical wall of the infusion **chamber**, and a heating **chamber** positioned inside a heating module. The guiding conduit has a first end emerging inside the infusion **chamber** and a second end emerging towards outside of the infusion **chamber**. The filter cartridge has a longitudinal direction, which is inclined with respect to a surface (141) of water to be contained in the infusion **chamber**. An angle between the longitudinal direction with respect to the surface of water is 40[deg]. The filter cartridge has: a first end designed to be removably fixed on the second end of the guiding conduit; and a second free end (143) designed to be positioned inside the infusion **chamber**. The guiding conduit and the filter cartridge are present in cylindrical form. The first end of the filter cartridge is fixed with the second end of the guiding conduit by screwing or clamping. The heating **chamber** is positioned above the infusion **chamber**, and has an opening in its lower wall, where the opening is present near the vertical wall of the infusion **chamber**. The lower wall of the heating **chamber** is present in the form of loading funnel or funnel. The lower wall of the infusion **chamber**, which is positioned above a cavity that is designed to receive a container, is present in the form of loading funnel or funnel. The tea making machine has an opening that is equipped with an electromagnetic **valve**. The electromagnetic **valve** comprises: a ball made of magnetizable material such as soft iron; a coil located around the opening. The ball has a closed position covering the opening when current does not pass through the coil, and a position, which is opened when the coil is supplied with direct current. The filter cartridge comprises: an envelope wall pierced by **holes**, where a fixing system with a plug is provided at one end of the **holes**; and a sealed and opaque casing positioned around the filter cartridge. The fixing system is formed with a tamper proof system, which comprises: an inner ring integral with the plug equipped with a hook folded toward a surface of the plug; and an outer ring fixed to an end of the envelope wall. Independent claims are included for: (1) a filter cartridge; and (2) a tea making machine.

Classifications:
International (IPC 8-9): A23F3/00 A47J31/00
A47J31/06 (Advanced/Invention)
CPC: A47J31/20
European: A47J31/20



Family:

Publication number	Publication date	Application number	Application date
CN102727092 A	20121017	CN201210034393	20120215
FR2973995 A1	20121019	FR20110053235	20110414
FR2973995 B1	20141114	FR20110053235	20110414

Priority:

FR20110053235 20110414

Probable Assignee: MAISON AGUIE
Assignee(s): (std): MAISON AGUIE
Inventor(s): (std): AGUIE PAUL ; PAUL AGUIE
Agent(s): CABINET SCHMIT CHRETIEN; SEBASTIEN MARCONNET

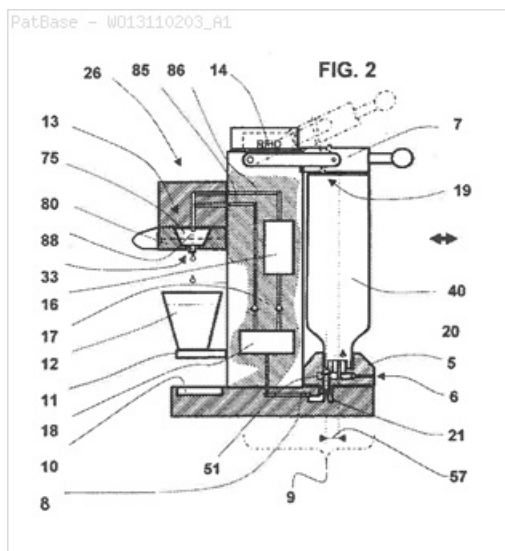
Title: COFFEE MACHINE

Abstract: The invention relates to coffee and beverage machines and methods for preparing hygienically pure and perfect beverages. The intention is to achieve this even in locations without a mains water connection or locations where mains water is difficult to acquire for beverages and washing the integrated water container. According to the invention, the beverage or coffee water is drawn directly from commercially available disposable water bottles (40, 40') by the beverage machine (26) via a pump (18). The commercially available disposable containers (40, 40') contain hygienically packaged high-quality mineral water, are securely closed by rotary closure lids (41/42/42') and are in the form of PET or glass bottles, cartons or plastic bags with a volume of from 0.3 to 2 litres. If the content of the disposable container (40, 40') is depleted by the machine (26) or the water quality has to be changed, a new disposable water container with correspondingly packaged water is directly used. The disposable water container is directly received by the machine (26/9/60) by means of a coupling apparatus (5) with container connection nozzles (46/47) and a machine connection nozzle (50) with a non-return valve (51) which is freely switched by an unlocking apparatus (61) in the water introduction apparatus (21/60) of the machine (26). The coupling apparatus is further designed with a ventilation apparatus (6) for the disposable container. The disposable container (40) is designed such that it can be installed in and removed from the beverage machine (26) individually and together with the coupling apparatus (5). A further refinement of the beverage machine (26) for drawing a large number of hot or cold beverages using hot or cold water which flows through the lines (85, 86) involves the hot or cold water passing through the beverage capsule (75) in the **brewing chamber** (88) with a downstream discharge channel (33), without the beverage liquid (87) which flows through touching or wetting the wall of the capsule holder (80) and/or the discharge channel (33) thereof. In a further embodiment of the invention, the beverage machine is designed for a large number of types of beverage such that the hot or cold beverage can be prepared in two ways. In the first way, a beverage capsule is inserted into the capsule holder of the **brewing chamber** (88) of the machine in order to produce a cold or warm capsule beverage (figure 2), and in the second way a beverage capsule is not inserted into the capsule holder of the **brewing chamber** (88), in order to draw only pure cold or hot water. In this case, the water passes through the **brewing chamber** (88) and capsule holder (80) (**figure 2a**). In both cases, the beverage liquids or the pure water flowing through do not touch the walls of the capsule **chamber** (81) or the **brewing chamber** (88) and the outlet opening (33) or the outlet channel (33). Since the liquids which flow through or the pure water do not come into contact with the **brewing chamber** wall (88/81) and the outlet opening (33), the **brewing chamber** and outlet opening cannot be soiled, and therefore the machine remains completely hygienic and completely taste-neutral without intermediate cleaning. Therefore, coffee, hot chocolate, tea or cold drinking water can be prepared immediately in succession. A sensor machine controller with RFID readers (14) and RFID labels (70) can be used in order to perfectly adjust the beverage machine for the corresponding beverage/soup etc. The machine (26) is adjusted and the consumable material data is identified independently of spoken instructions and automatically without visible contact with the label. The RFID label is equipped with a unique code which prevents use of counterfeit consumable materials in the beverage machine.

Classifications:

International (IPC 8-9): A47J31/44 (Advanced/Invention)

CPC: A47J31/4403



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CH706027 A2	20130731	CH20120001301	20120808
CH706037 A2	20130731	CH20120000099	20120123
WO13110203 A1	20130801	WO2013CH00010	20130116
WO13110203 A9	20140206	WO2013CH00010	20130116

Priority:

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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 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: BEVERAGE FORMING DEVICE AND METHOD WITH MOVING BEVERAGE CARTRIDGE HOLDER

Abstract: Source: US2014338542A Method and apparatus for receiving, moving and holding a cartridge. A cartridge holder may be movable between an open position in which the cartridge holder is in an upwardly inclined orientation to receive a cartridge and a closed position in which the cartridge holder is in a downwardly inclined orientation. A cover may be arranged to at least partially cover the opening of the cartridge holder with the cartridge holder in the closed position, yet be positioned away from the opening with the cartridge holder in the open position.

Classifications:

International (IPC 8-9): A47J31/00 A47J31/36 A47J31/40

A47J31/44 (Advanced/Invention);

A47J (Subclass/Invention)

CPC: A47J31/407 A47J31/3633

US: 99/295



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AU2013217593 AA	20130815	AU20130217593	20130204
AU2013217593 BB	20161013	AU20130217593	20130204
AU2013217593 BI	20170216	AU20130217593	20130204
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WO13119495 A1	20130815	WO2013US24597	20130204

Priority:

EP20130705063 20130204 US20120596997P 20120209 WO2013US24597 20130204
US20140447805 20140731

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Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; ROBIC; SMART AND BIGGAR;
BARKER ROSEMARY ANNE; HGF LTD; YKI PATENT ATTORNEYS; HUNT ROBERT E

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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: MILK POWDER BOX AND MILK POWDER **BREWING** DEVICE

Abstract: A milk powder box (12, 22, 32, 42, 52) and milk powder **brewing** device (10, 20, 30, 40, 50), the milk powder box (12, 22, 32, 42, 52) having a box body (125, 225, 325, 425, 525), a box bottom (123, 223, 323, 423, 523) and a second connecting mechanism (124, 224, 324, 424, 524); the upper part of the milk powder box (12, 22, 32, 42, 52) can be connected to a nipple and can be connected to a feeding bottle (11, 21, 31, 41, 51) through the second connecting mechanism (124, 224, 324, 424, 524), and the milk powder box (12, 22, 32, 42, 52) has a milk powder outlet (126, 226, 326, 426, 526); the box body (125, 225, 325, 425, 525) can move longitudinally relative to the feeding bottle (11, 21, 31, 41, 51) connected to the milk powder box (12, 22, 32, 42, 52), such that the milk powder box (12, 22, 32, 42, 52) is provided with a first working position and a second working position; in the first working position, the milk powder outlet (126, 226, 326, 426, 526) is closed, and the box body (125, 225, 325, 425, 525) and the box bottom (123, 223, 323, 423, 523) together form a milk powder accommodation cavity isolated from the water in the feeding bottle (11, 21, 31, 41, 51), and in the second working position, the milk powder outlet (126, 226, 326, 426, 526) is opened, and the feeding bottle (11, 21, 31, 41, 51) opens into the nipple via the milk powder box (12, 22, 32, 42, 52), forming a milk channel hermetically isolated from the outside. The milk powder **brewing** device (10, 20, 30, 40, 50) comprises a feeding bottle (11, 21, 31, 41, 51) and a milk powder box (12, 22, 32, 42, 52); water and milk powder are prepared before using the milk powder **brewing** device (10, 20, 30, 40, 50); when **brewing**, only one step is needed: making a relative movement between the box body (125, 225, 325, 425, 525) and the feeding bottle (11, 21, 31, 41, 51). By overcoming the inconvenience in the prior art of removing the milk powder box and reconnecting the nipple and the feeding bottle to **brew** the milk powder dropped down, the present invention is easy to use without creating milk powder residue.

Classifications:

International (IPC 8-9): A47J31/40 A61J9/00 A61J9/02 B65D23/04 B65D25/08 B65D51/28 B65D81/32 B65D83/06 B65D85/80 G01K13/00 G01K5/04 G01K5/08 G01K5/12 (Advanced/Invention); A47J A61J B65D (Subclass/Invention)

CPC: A61J9/00 A61J1/2093 A61J9/008 B65D81/3211 A47J31/401 A61J1/2031 A61J1/2037 A61J1/2041 G01K5/08 G01K5/12 G01K13/00 A61J9/02 A61J1/2089 A61J1/202



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CN201320364804U	20130624	CN201310423301	20130916	CN201310432036	20130918
WO2013CN73141	20130325	WO2013CN73150	20130325	WO2013CN75499	20130510
CN201420141097U	20140325	CN201480002035	20140111	WO2013CN076711	20130604
WO2013CN083819	20130918	WO2013CN079728	20130719	WO2013CN77737	20130624
WO2013CN77915	20130625	WO2013CN83563	20130916	WO2014CN74063	20140325
WO2014CN070493	20140111				

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Agent(s): RYUKA IP LAW FIRM; CHINA TRUER IP

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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
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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