

Search history

- Search [SP]: A beverage preparation system configured to dispense a beverage into a cup or other vessel suitable for drinking, the system comprising:
 1: a beverage preparation machine configured to prepare the beverage; a dispensing assembly comprising: a base; a dispensing unit rotatably coupled to the base, the dispensing unit comprising an elongated hollow cover with a first open end and a second closed end, the second end comprising a check valve; and the dispensing unit being configured to pivot between an upright position and an inverted position, at the first end end is directly above the second end in the upright position and the second end is directly above the first end in the inverted position; a control valve configured to switch between a first state and a second state, in which a flow of beverage is allowed to pass through the control valve in the first state and a flow of cleaning fluid is allowed to pass to through the control valve in the second state; wherein, when the dispensing unit is in the upright position and the control valve is in the first state, the dispensing unit is configured to receive a portion of the beverage through the second end; wherein, when the dispensing unit is in the inverted position and the control valve is in the second state, the dispensing unit is configured to receive cleaning fluid through the second end and to dispense the cleaning fluid from the first end; and wherein, when the dispensing unit is in an intermediate position between the upright and inverted positions, the dispensing unit is configured to dispense the beverage portion through the first end and into the cup or other vessel. (Results 0)
- Search [SP]: A beverage preparation system configured to dispense a beverage into a cup or other vessel suitable for drinking, the system comprising:
 2: a beverage preparation machine configured to prepare the beverage; a dispensing assembly comprising: a base; a dispensing unit rotatably coupled to the base, the dispensing unit comprising an elongated hollow cover with a first open end and a second closed end, the second end comprising a check valve; and the dispensing unit being configured to pivot between an upright position and an inverted position, at the first end end is directly above the second end in the upright position and the second end is directly above the first end in the inverted position; a control valve configured to switch between a first state and a second state, in which a flow of beverage is allowed to pass through the control valve in the first state and a flow of cleaning fluid is allowed to pass to through the control valve in the second state; wherein, when the dispensing unit is in the upright position and the control valve is in the first state, the dispensing unit is configured to receive a portion of the beverage through the second end; wherein, when the dispensing unit is in the inverted position and the control valve is in the second state, the dispensing unit is configured to receive cleaning fluid through the second end and to dispense the cleaning fluid from the first end; and wherein, when the dispensing unit is in an intermediate position between the upright and inverted positions, the dispensing unit is configured to dispense the beverage portion through the first end and into the cup or other vessel. (Results 0)
- Search SFT=(beverage and preparation and system and dispens* and rotatabl* and check and valve) and PD<20150918 and IC=(A47J) and CPC=(A47J) (Results 36)
 3:

1) Family number: 36001200 (US2007207040A)

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Title: PUMP SYSTEM WITH CALIBRATION CURVE

Priority:	US20060276548	20060306	EP20070811814	20070301	WO2007US63033	20070301
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Family:

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Probable Assignee:

DEKA PRODUCTS PARTNERSHIP LTD

Assignee(s):(std):

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

Assignee(s):

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

Inventor(s):(std):

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Agent(s):

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Designated states: BRENNAN LLP; HOLLAND AND KNIGHT LLP; MICHELLE SAQUET TEMPLE; MICHELLE SAQUET; MICHELLLE SAQUET; TEMPLE MICHELLE SAQUET; COLANDREO BRIAN J; COLANDREO BRIAN J ET AL
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 NZ 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

International class (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 F04B43/02 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 class (IPC 1-7): B62D1/04 B67D1/04 B67D1/08 B67D5/08 F04B13/02 F04B49/06 G05B19/042 G05B21/02 G06F19/00 H01Q9/16 H02P8/00

CPC: B67D7/14 A47J31/36 A47J31/42 A47J31/52 B67D7/221 F04B17/04 F04B49/06 B67D1/1218 B67D1/1234 B67D1/0878 B67D1/1206 G05D7/0635 G05D11/132 G05D11/133 B67D2210/00034 B67D2210/0006 G01F3/10 G01F3/20 G01F23/0076 G06K7/10336 G06K19/07749 Y10T137/7761 G05B19/0428 G06F19/3475 A47J31/40 G06K7/0008 G06K7/10316 H01Q15/0086 H01Q19/00 G01F1/662 G01F1/34 G05D7/0617 H01Q1/50 G05B19/406 G05B2219/31455 H01Q7/00 H01Q1/2208 G06F19/3456 Y10T137/7722 Y10T137/7759 Y10T137/85978 B67D1/0855 G01F1/56 H01Q1/2225 H01Q7/005 H01Q9/16 G06K19/07767 G06K19/07786 H01Q9/0464 G06K7/10089 H01Q1/521 Y10T137/5987 Y10T137/7782 Y10T137/86027 Y10T137/87799 H01Q1/2216 G16H20/60 B67D1/0892 F04B13/02 F04B49/065 F04B51/00 B67D1/0034 B67D1/0036 B67D1/0888 B67D1/10 B67D1/104 B67D1/122 B67D2001/0097 F04D15/0027 G05B15/02

European class: A47J31/36 A47J31/40 A47J31/42 A47J31/52 B67D1/00F4B6B2 F04B13/02 F04B49/06C F04B51/00 G01F23/00G1A G01F3/10 G01F3/20 G05B19/042S G05D7/06F4B G06F19/34L G06F19/34M G06K7/00E G06K7/10A8 H01Q1/22C H01Q1/22C2 H01Q1/22C4 H01Q1/52B H01Q15/00C H01Q19/00 H01Q7/00 H01Q7/00B H01Q9/16 L67D210/00D2B L67D210/00D4D

US class: 1/1 137/315.03 137/455 137/486 137/487.5 137/487.500S 137/495 137/565.01 137/565.010S 137/565.16 137/625.38 222/1 222/129.1 222/129.100P 222/129.100S 222/129.4 222/132 222/136 222/14 222/145.5 222/145.500S 222/23 222/333 222/333S 222/385 222/52 222/52P 222/59 222/63 222/63S 235/375 235/492 251/129.15 251/129.19 251/129.2 251/129.22 318/696 318/696P 318/810 318/810S 324/316 333/219 333/219.2 333/219.200S 340/572.1 340/572.100P 340/572.100S 340/572.7 340/572.700S 340/572.8 343/700MS 343/702 343/741 343/742 343/749 343/749P 343/753 343/753P 343/822 343/833 343/833S 343/842 343/843 343/843S 343/850 343/850S 343/853 343/860 343/860S 343/866 343/866S 417/313 417/313S 417/44.1 417/44.100P 417/9 700/108 700/108P 700/114 700/114P 700/231 700/239 700/239P 700/254 700/283 700/95 700/95S 73/198 73/23.2 73/290.00RS 73/290R 73/861.08 73/861.18 73/861.47 73/861.470P

JP class F-Term: 3H045 3H145 3H145/AA02 3H145/AA12 3H145/AA22 3H145/BA28 3H145/CA00 3H145/CA06 3H145/DA00 3E082 3E082/BB02 3E082/CC04 3E082/DD01 3E082/DD09 3E082/EE02 5B035 5B058 5B058/CA17 5B058/KA13 5B058/YA13 5B058/YA20 3E047 3E047/AA01 3E047/BA01 3E047/BA02 3E047/BA04 3E047/DA03 3E047/DC04 3E047/EA08 3E047/EB03 3E082/AA02 3H069 3H069/AA01 3H069/BB02 3H069/CC04 3H069/DD15 3H069/EE33 3H069/EE42 3H075 3H075/AA01 3H075/BB03 3H075/CC11 3H075/DA03 3H075/DA04 3H075/DB01 3H145/AA03 3H145/AA43 3H145/BA19 3H145/CA21 3H145/DA08 3H145/DA46 3E047/AA03 3E047/AA04 3E047/BA03 3E047/DC02 2F030 2F030/CA01 2F030/CA02 2F030/CA03 2F030/CA05 2F030/CA10 2F030/CC01 2F030/CC02 2F030/CF07 2F030/CF08 3E082/DD02 3E082/DD05 3E083 5G056 2F032 3E118 3E118/AB14 3E118/BB16 3E118/DA05 3E118/FA03 3H106 3H106/DA05 3H106/DA13 3H106/DA23 3H106/DB02 3H106/DB12 3H106/DB23 3H106/DB32 3H106/DC08 3H106/DD02 3H106/EE38 3H106/FB27 3H106/GA15 3H106/GB01 3H106/GC14 3H106/KK05 4B104 4B104/AA23 4B104/AA25 4B104/AA28 4B104/BA02 4B104/BA09 4B104/BA12 4B104/BA16 4B104/BA20 4B104/BA21 4B104/BA53 4B104/BA63 4B104/BA64 4B104/BA75 4B104/BA80 4B104/BA81 4B104/BA82 4B104/CA06 4B104/CA07 4B104/CA14 4B104/CA18 4B104/CA19 4B104/CA27 4B104/DA08 4B104/DA40 4B104/DA44 4B104/DA55 4B104/DA56 4B104/DA57 5H307 5H307/AA02 5H307/CC01 5H307/DD13 5H307/EE02 5H307/EE21 5H307/ES02 5H307/HH12 5B058/CA15 5B058/KA22 5B058/KA24 5J048 5B035/BA03 5B035/BB09 5B035/CA01 5B035/CA23 5B072 5J046 5J046/AA02 5J046/AA12 5J046/AB03 5J046/AB11 5J046/UA01 5K012 5K012/AA01 5K012/AB03 5K012/AC06 5K012/AC07 2F030/CA04 2F030/CC08 2F030/CG02 3E047/EB01 3E082/EE01 3E082/FF01 3E082/FF09 3E082/CC10 3E082/DD20 3H145/AA14 3H145/BA12 3H145/CA30 3H145/DA47 3H145/EA04 5B058/CA23 5B058/KA08 3E082/BB01 3E082/BB10 3E082/CC03 3E082/FF07 4B104/AA30 4B104/CA08 4B104/EA40 3E047/GA01 5J046/AA03 5J046/UA02 3H069/DD21 3H069/EE05 3H069/EE21 3H145/BA41 3E082/EE03 3H069/DD14 3H069/EE22 3H069/EE32 5H501 5H501/AA05 5H501/BB04 5H501/DD01 5H501/HB16 5H501/JJ03 5H501/JJ17 5H501/LL44 5K012/AA03 5E047/AA02 3E047/DA01 3E047/DB05 3E047/DC06 3E047/FA02 3E047/FA05 3H069/AA05 3H069/AA07 2F030/CE02 3E047/DA02 3E047/DC07 3E047/DC08 3E082/CC06

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US5757667 A, US5755683 A, US5755683 A, US5728949 A, US5728949 A, US5702032 A, US5673820 A, US5642761 A, US5641892 A, US5635625 A, US5615801 A, US5615801 A, US5601413 A, US559792 A, US5590790 A, US5575310 A, US5499741 A, US5490447 A, US5485166 A, US5464120 A, US5457626 A, US5457626 A, US5448110 A, US5437842 A, US5421823 A, US5421823 A, US5369383 A, US5350357 A, US5350357 A, US5350082 A, US5350082 A, US5305915 A, US5284422 A, US5269442 A, US5240380 A, US5221025 A, US5192000 A, US5181631 A, US5145339 A, US5141130 A, US5134962 A, US5121855 A, US5114047 A, US5088515 A, US5088515 A, US5058630 A, US5039279 A, US5014211 A, US5001 A, US4981024 A, US4979639 A, US4976162 A, US4976162 A, US4967932 A, US4955507 A, US4941353 A, US4938384 A, US4908161 A, US4826482 A, US4826482 A, US4808161 A, US4808161 A, US4779761 A, US4756331 A, US4756330 A, US4753370 A, US4725779 A, US4724389 A, US4717880 A, US4655123 A, US4652769 A, US4613325 A, US4523474 A, US4504788 A, US4503706 A, US4494743 A, US4446429 A, 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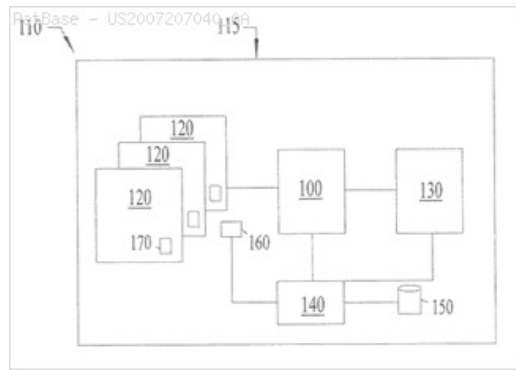
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AU2011220486, AU2010304724, AU2010285067,

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.



2) Family number: 56771273 (EP2745748A1)

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Title: BEVERAGE PREPARATION DEVICE AND BEVERAGE CARTRIDGE DISPOSITIF DE PREPARATION DE BOISSONS ET CARTOUCHE DE BOISSONS

Priority: EP20120198778 20121220

Family:

Publication number	Publication date	Application number	Application date
EP2745748 A1	20140625	EP20120198778	20121220

Probable Assignee: TOKIMEKI GMBH

Assignee(s):(std): TOKIMEKI GMBH

Inventor(s):(std): THEIM SEBASTIAN

Agent(s): LATSCHA SCHOELLHORN PARTNER

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

International class (IPC 8-9): A47J31/06 A47J31/40 (Advanced/Invention)

CPC: A47J31/0615 A47J31/0631 A47J31/407

[Classification Explorer](#)

Cited documents: US5957035 A, US4983412 A, US2009317526 AA, EP1772081 A1, DE602005001139 T2

Abstract:

The device (1) has a cartridge holder (32) provided with holding parts arranged in a cartridge brewing unit (3) to hold a beverage cartridge (5). The cartridge brewing unit comprises a drawing container (31) filled with liquid and a stirring part. The holding parts of the cartridge holder are arranged inside the drawing container in a cartridge region (311) of the drawing container and the stirring part for causing a flow in the cartridge region of the container. The stirring part comprises a rotary bearing and a rotary drive. An independent claim is also included for a beverage cartridge.

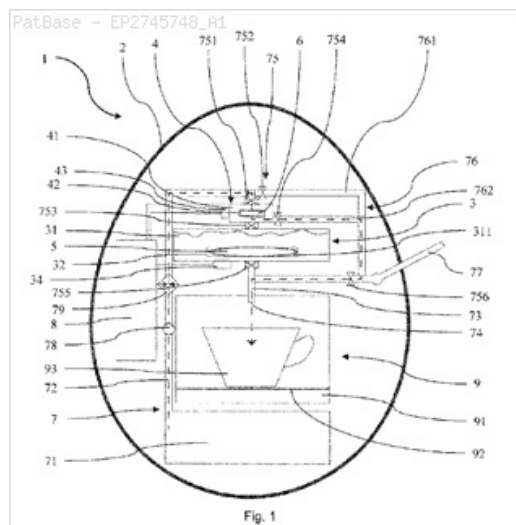


Fig. 1

3) Family number: 56019293 (US2014076167A)

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Title: COFFEE PREPARATION SYSTEM

Priority:

US20120743946P 20120915
US20130028306 20130916
US20160018548 20160208
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US20190256723 20190124

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US20160320500P 20160409
US20170694431 20170901

Family:

Publication number	Publication date	Application number	Application date
DE602013056316 D1	20190627	DE201360056316T	20130916
EP2895005 A1	20150722	EP20130837304	20130916
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Probable Assignee:

Assignee(s):(std):

Assignee(s):

Inventor(s):(std):

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Agent(s):

Designated states:

International class (IPC 8-9):

CPC:

US class:

[Classification Explorer](#)

Cited documents:

Forward Citations:

Abstract:

SEVA COFFEE CORP

BOGGAVARAPU DEEPAK ; DEEPAK BOGGAVARAPU ; SEVA COFFEE CORP

BOGGAVARAPU DEEPAK SAN CARLOS

BOGGAVARAPU DEEPAK ; DEEPAK BOGGAVARAPU

BOGGAVARAPU DEEPAK SAN CARLOS

BUMKE JAKOB WENZEL; GREAVES BREWSTER LLP; COGNITION IP PC; LEE BRYANT; VANDRAKE VANCE V III ET AL

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

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A47J31/42 A23F5/26 A47J31/3633 A47J31/407 A23N12/08 A23F5/262 A47J31/52 A23N12/125 A47J31/4492 A47J42/52

1/1 426/433 99/286

[Classification Explorer](#)

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A coffee preparation machine that can roast, grind, and brew coffee.



Title: APPARATUS FOR PREPARING AND DISPENSING HOT POTABLES
Priority: US19620197988 19620528
Family:

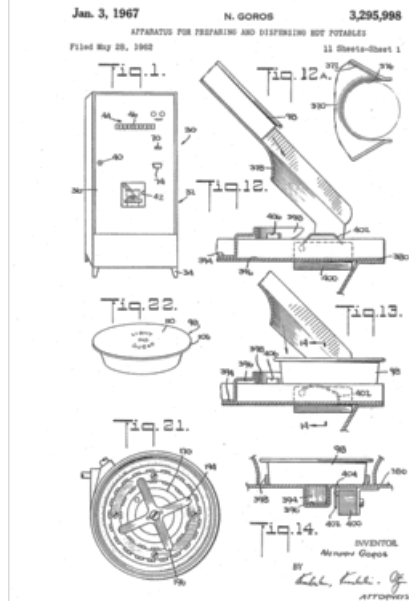
Publication number	Publication date	Application number	Application date
US3295998 A	19670103	US19620197988	19620528

Probable Assignee: VENDCOR INC
Assignee(s):(std): VENDCOR INC
Inventor(s):(std): NATHAN GOROS
Inventor(s): GOROS NATHAN
International class (IPC 8-9): A47J31/36 A47J31/40 G07F13/06 (Advanced/Invention); A47J31/24 A47J31/40 G07F13/06 (Core/Invention)
International class (IPC 1-7): A47J31/40
CPC: G07F13/065 A47J31/3633 A47J31/3638 A47J31/3642 Y10T83/8831 Y10T83/9476
European class: A47J31/36A4D A47J31/36A4F A47J31/36A4H A47J31/40B A47J31/40B2 A47J31/40H G07F13/06B
US class: 221/124 221/131 221/133 221/193 221/222 221/238 222/86 83/620 83/698.91 99/282 99/284 99/289R 99/295 99/302P

[Classification Explorer](#)

Cited documents: US936101 A, US823446 A, US818481 A, US474064 A, US3100434 A, US3000539 A, US2976710 A, US2969451 A, US2939381 A, US2901964 A, US2899886 A, US2898843 A, US2887038 A, US2883922 A, US2848939 A, US2778739 A, US2153407 A, US1954147 A, US1895710 A, US1816829 A, US1555338 A,
Forward Citations: WO12046195, WO06127118, WO05072577, WO04006740, WO0221982, WO02058523, US9888805, US9808113, US9717264, US9708109, US9668609, US9526371, US9486102, US9427106, US9402406, US9320382, US9272827, US9260284, US8794127, US8740020, US8621982, US8590753, US8555774, US8371211, US8126589, US7856919, US7793797, US7581658, US7472643, US7444927, US7325479, US7231279, US7013797, US6994015, US6792980, US6763759, US6595106, US6298769, US6068871, US5826492, US5794519, US5656316, US5649472, US5398595, US5327815, US5242702, US4846052, US4136202, US3583308, US3384004, US2017020328, US2015257586, US2015203378, US2015173560, US2014291426, US2014109772, US2013180407, US2012231126, US2012090474, US2011166910, US2011088560, US2010154645, US2010055252, US2010024657, US2009095165, US2008302123, US2008250935, US2007246478, US2006144242, US2006124659, US2005223904, US2005103198, US2005038559, US2004168577, US2004079237, US2003066431, US10118757, US10098494, US10080459, US10070751, US10034570, RU2571191, JP2013538663, JP2009361, ITMI20110139, ITMI20101912, FR2842092, FR2842090, FR2842089, FR2617389, FR2463463, EP2443972, EP1772081, EP1676508, EP1676508, EP1676508, EP1369069, EP1369069, EP1353591, EP1188400, EP1089240, EP1089240, EP0334572, EP0334571, EP0242556, EP0199953, EP0151252, EP0125215, EP0125215, EP0087550, EP0087550, EP0041931, CN103153143, CN103153143, CH668544, CH664886,

Abstract:
(Claim 1) In a machine for dispensing an individual portion of isolation means associated with the third conduit means, a potable upon each actuation of the machine, the com- said several isolation means being constructed and ar-bination of: a tank the fluid capacity of which is substan- 35 ranged when the brewing station is operable to isolate the tially equal to an individual portion of the potable, a tank from the source of water, to connect the source of dispensing station, a brewing station connected directly air under pressure to the tank and to connect the tank to to the dispensing station, a source of water, a first conduit the brewing station so that the source of air under pres-means connecting said source of water to said tank, a sure will force all of the water in the tank out of the second conduit means connecting said tank directly to said 40 brewing and dispensing stations and blow the water brewing station, means in the first conduit means for through the second conduit means out of the brewing and selectively isolating the source of water from the tank, dispensing stations whereby to clean out the second con-means in the second conduit means for selectively iso- duit means and the brewing and dispensing stations each lating the brewing station from the tank, and fluid means time that a potable is dispensed. for applying pressure to the water in the tank when the 45 5. A machine as set forth in claim 4, wherein the brewtank is isolated from the source of water and is con- ing station has two cooperating brewing jaws, and wherein nected to the brewing station so as to empty the tank a container in which flavoring material for a single indithrough the brewing and dispensing stations, said fluid vidual portion of the potable is disposed is located between means being inoperative to apply such pressure when the said jaws so that when water leaves the tank on its way tank is connected to the source of water and is isolated go toward the dispensing station it is introduced to and forced from the brewing station. through the container under elastic air pressure.

**5) Family number: 31156344** (US5233914A)

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Title: IN-CAR COFFEE MAKER
Priority: US19910739311 19910801 WO1992US06199 19920728 US19930103860 19930809
 US19940259960 19940614

Family:	Publication number	Publication date	Application number	Application date
	AT128015 E	19951015	AT19920917118T	19920728
	AU199224174 A1	19930302	AU19920024174	19920728
	CA2093126 AA	19930331	CA19922093126	19920728
	CA2093126 C	19950314	CA19922093126	19920728
	DE69204982 D1	19951026	DE19926004982	19920728
	DE69204982 T2	19960314	DE19926004982T	19920728
	EP0552350 A1	19930728	EP19920917118	19920728
	EP0552350 A4	19940112	EP19920917118	19920728
	EP0552350 B1	19950920	EP19920917118	19920728
	US5233914 A	19930810	US19910739311	19910801
	US5440972 A	19950815	US19940259960	19940614
	WO9302604 A1	19930218	WO1992US06199	19920728
	WO9534236 A1	19951221	WO1995US07551	19950614

Probable Assignee: ENGLISH PHILIP H AVON COL US
Assignee(s):(std): ENGLISH PHILIP H ; PHILIP H ENGLISH
Assignee(s): ENGLISH PHILIP H AVON COL US
Inventor(s):(std): PHILIP H ENGLISH ; ENGLISH PHILIP H
Inventor(s): ENGLISH PHILIP H AVON COL US
Agent(s): COLLISON AND CO; MACRAE AND CO
Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE
International class (IPC 8-9): A47J31/00 A47J31/46 A47J31/54 A47J45/02 B60N3/16 (Advanced/Invention); A47J31/00 A47J45/00 B60N3/00 (Core/Invention)
International class (IPC 1-7): A47J31/00 A47J31/22 A47J45/02 B60N3/16
CPC: A47J31/005 A47J45/02 B60N3/16 A47J31/46 A47J31/545
European class: A47J31/00P A47J31/46 A47J31/54A1 A47J45/02 B60N3/16
US class: 99/282 99/283 99/305 99/307 99/312 99/316

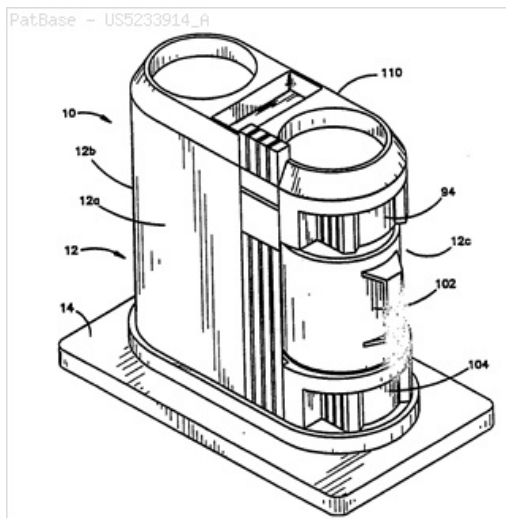
[Classification Explorer](#)

Cited documents: US5233914 A, US4999470 A, US4974801 A, US4875408 A, US4713526 A, US4662271 A, US4659053 A, US4384512 A, US4382402 A, US4262585 A, US4151790 A, US4143589 A, US4121508 A, US4068961 A, US3684860 A, US3231713 A, US3179035 A, US2661015 A, GB2203633 A1, DE2121322 A1,
Forward Citations: WO12076787, WO11053890, WO11053890, WO11020779, WO09092745, WO09023712, WO06032601, WO05048794, WO04098360, WO03009729, WO0172187, WO0071006, USD859050, USD858169, USD744275, USD743786, USD743252, USD703039, USD695111, USD694620, USD667251, USD650626,

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Abstract:

The In-Car Coffee Maker allows the driver of a motor vehicle to brew a cup or other single portion of brewed beverage without taking attention from the road. The device is stabilized by an anchored base. There is a rotatable holder clamp to level the coffee maker on an uneven floor or other surface of a motor vehicle, and an interlock mechanism prevents commencement of the brewing cycle unless the drinking cup is applied in proper position adjacent the coffee maker. A showerhead configuration above a brewing chamber allows heated water to dispersably contact a prepackaged filter containing beverage precursor particles. A thermostat control causes automatic shut-off when a single portion has brewed. A water reservoir is removable and resealable. Splash guard features are provided in the drinking cup for safety.



6) Family number: 845350 (US3413907A)

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Title: Infusor apparatus
Priority: US19650443786 19650330
Family:

Publication number	Publication date	Application number	Application date
US3413907 A	19681203	US19650443786	19650330

Probable Assignee: SEEBURG CORP
Assignee(s):(std): SEEBURG CORP
Inventor(s):(std): BRILL FRANK D ; SCHWERTFEGER OWEN J

International class (IPC 8-9): A47J31/40 (Advanced/Invention);
A47J31/40 (Core/Invention)

International class (IPC 1-7): A47J31/40

CPC: A47J31/408

European class: A47J31/40F A47J31/40L

US class: 99/283 99/287 99/289R 99/302R 992/870

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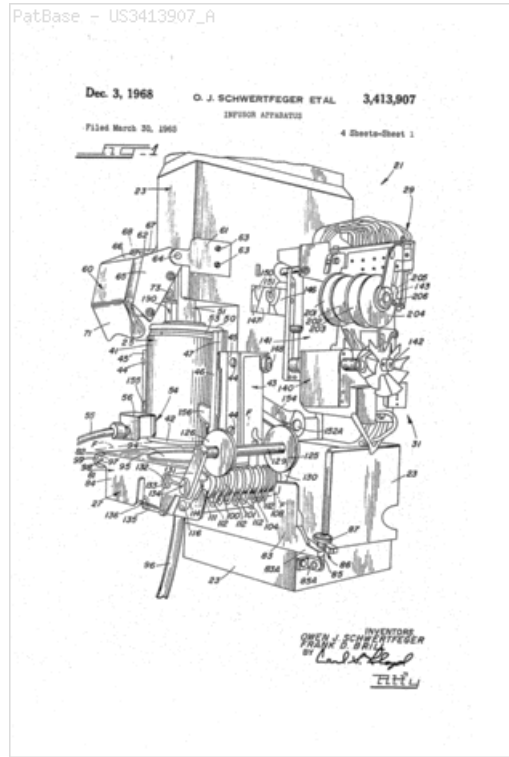
Cited documents: US3288049 A, US3203340 A, US3019719 A, FR1376189 A, FR1333403 A,

Forward Citations: WO11068889, US8931398, US7845270, US7640851, US5644973, US4581239, US3754462, US2014102308, US2011129581, US2007113743, US2005193892, EP2503924,

Abstract:

ABSTRACT OF THE DISCLOSURE

An improved one cup coffee brewing mechanism comprises a brewing chamber having a coffee outlet opening and filter means in cooperation therewith. Means are provided for placing a charge of ground coffee in the chamber, and the device further includes means for sealing the ground coffee within the chamber and liquid supply means adapted to inject a jet stream of water into the ground coffee so as to cause vigorous agitation thereof. Pressurizing means simultaneously increases pressure within the chamber such that the ground coffee is rapidly and thoroughly infused with the heated water and the resulting brewed coffee is discharged from the outlet opening of the chamber through the filter means.



7) Family number: 59283351 (US2015135966A)

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Title: APPARATUSES, SYSTEMS, AND METHODS FOR BREWING A BEVERAGE
Priority: US20130906871P 20131120 US20130906872P 20131120 WO2014US66174 20141118
EP20140816491 20141119 US20140548174 20141119 US20140548226 20141119
WO2014US66455 20141119 US20180907108 20180227

Family:	Publication number	Publication date	Application number	Application date
	AU2014353084 AA	20160609	AU20140353084	20141119
	AU2014353084 BB	20180412	AU20140353084	20141119
	BR112016011606 A2	20170808	BR20161111606	20141119
	CA2930844 AA	20160516	CA20142930844	20141119
	CA2930844 C	20190625	CA20142930844	20141119
	CN105916418 A	20160831	CN201480073136	20141119
	CN105916418 B	20190924	CN201480073136	20141119
	CO16147870 A2	20161121	CO20160147870	20160607
	DE602014015206 D1	20171109	DE201460015206T	20141119
	EP3071080 A1	20160928	EP20140816491	20141119
	EP3071080 B1	20170927	EP20140816491	20141119
	IN201637018215 A	20160826	IN201637018215	20160527
	JP2017500091 T2	20170105	JP20160533085T	20141119
	JP6521966 B2	20190529	JP20160533085T	20141119
	KR20160087865 A	20160722	KR20167016128	20141119
	MX2016006632 A1	20160906	MX20160006632	20141119
	TR201718347 T4	20171221	TR20170018347T	20141119
	TW201524440 A	20150701	TW20140140111	20141119
	TW201526851 A	20150716	TW20140140103	20141119
	TWI629961 B	20180721	TW20140140111	20141119
	US2015135966 AA	20150521	US20140548174	20141119
	US2015148980 AA	20150528	US20140548226	20141119
	US2018199750 AA	20180719	US20180907108	20180227
	US9820603 BB	20171121	US20140548226	20141119
	US9930987 BB	20180403	US20140548174	20141119
	WO15077237 A2	20150528	WO2014US66174	20141118

WO15077237 A3	20150911	WO2014US66174	20141118
WO15077367 A1	20150528	WO2014US66455	20141119

Probable Assignee: STARBUCKS CORP

Assignee(s):(std): STARBUCKS CORP DBA STARBUCKS COFFEE CO ; STARBUCKS CORP D B C STARBUCKS COFFEE CO ; STARBUCKS CORP D B A STARBUCKS COFFEE CO ; STARBUCKS CORP D ; STARBUCKS CORP

Assignee(s): STARBUCKS DBA STARBUCKS COFFEE COMPANY CORP ; STARBUCKS DBA STARBUCKS COFFEE CO CORP ; STARBUCKS D CORP ; STARBUCKS CORPDBA STARBUCKS COFFEE CO ; STARBUCKS DBA STARBUCKS COFFEE CO SEATTLE CORP ; STARBUCKS COFFEE CO ; SINGER MARC ; ALLISON JEFF ; APONE DAN ; DOUCETTE DAVID ; FRANKOVICH STEVE ; SHAY BRIAN ; KOLLER IZAAK ; JURIS AMANDA ; KLECKER GLENN ; HORTH ROLAND ; HANCOCK STEPHEN HOYT ; HULETT RANDY ; JOHNSON JOHN ANDREW ; STARBUCKS D B A STARBUCKS COFFEE CO CORP ; STARBUCKS D B C STARBUCKS COFFEE CO CORP

Inventor(s):(std): ALLISON JEFF ; SHAY BRIAN ; FRANKOVICH STEVE ; JURIS AMANDA L ; SINGER MARC ; KLECKER GLENN ; HORTH ROLAND ; APONE DAN ; DOUCETTE DAVID ; KOLLER IZAAK ; HANCOCK STEPHEN HOYT ; HULETT RANDY ; JOHNSON JOHN ANDREW ; ROTH FRANK ; DOUGHTY CHRIS ; JURIS AMANDA ; GLENN KLECKER ; RANDY HULETT ; MARC SINGER ; BRIAN SHAY ; STEPHEN HOYT HANCOCK ; DAVID DOUCETTE ; JEFF ALLISON ; DAN APONE ; ROLAND HORTH ; JOHN ANDREW JOHNSON ; AMANDA JURIS ; STEVE FRANKOVICH ; IZAAK KOLLER

Inventor(s): JOHNSON JOHN ANDREW SEATTLE ; FRANKOVICH STEVE OREGON CITY ; KLECKER GLENN SILVERTON ; HULETT RANDY SEATTLE ; DOUCETTE DAVID SEATTLE ; APONE DAN SEATTLE ; KOLLER IZAAK SEATTLE ; ALLISON JEFF LAKE OSWEGO ; SHAY BRIAN SEATTLE ; HORTH ROLAND SEATTLE ; HANCOCK STEPHEN HOYT WAKE FOREST ; SINGER MARC SEATTLE

Agent(s): MINTER ELLISON; GOUDREAU GAGE DUBUC; LAVERY DE BILLY LLP; JUAN CARLOS CUESTA QUINTERO; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; FULYA SUEMERALP; KNOBBE MARTENS OLSON AND BEAR LLP; CHRISTENSEN MICHAEL R

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

International class (IPC 8-9): A47J27/12 A47J27/62 A47J31/02 A47J31/40 A47J31/42 A47J31/44 A47J31/46 A47J31/60 A47J42/50 G05B15/02 G05D23/19 G05F1/66 H02J3/14 (Advanced/Invention)

CPC: A47J27/62 G05B15/02 G05F1/66 A47J31/40A H02J3/14 A47J31/40 A47J31/46 A47J31/42 A47J31/60 A47J42/50 G05D23/19S1

US class: 1/1 700/296 99/289R 99/327 99/337 99/338 99/339 99/342

JP class F-Term: 4B053 4B104 4B104/AA25 4B104/BA02 4B104/BA07 4B104/BA10 4B104/BA11 4B104/BA12 4B104/BA16 4B104/BA20 4B104/BA43 4B104/BA55 4B104/BA63 4B104/BA66 4B104/BA70 4B104/BA73 4B104/BA80 4B104/BA81 4B104/BA82 4B104/CA01 4B104/CA02 4B104/CA07 4B104/CA13 4B104/CA17 4B104/CA18 4B104/CA19 4B104/CA24 4B104/CA26 4B104/CA27 4B104/DA07 4B104/DA36 4B104/DA56 4B104/DA57 4B104/DA60 4B104/EA15 4B104/EA17 4B104/EA25 4B104/EA29 4B104/EA30 4B104/EA31

JP class F-Index: A47J31/42 A47J31/44/100 A47J31/44/193 A47J31/46 A47J42/50

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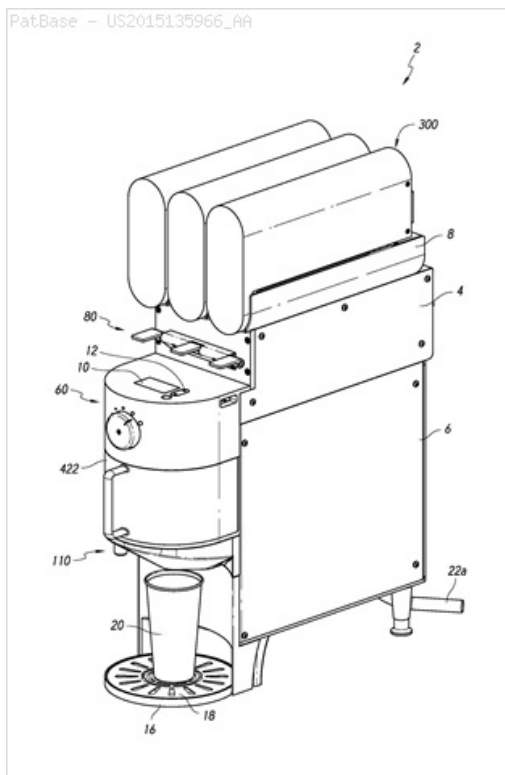
CN1625362 A, CN1444894 A, CN1229955 A, CN1061143 A, CN101380197 A,

Forward Citations:

WO18175685, US9930987, US9820603, US9218633, US2017007069, US10314426, US10278536, US10238234, US10219651, US10004354, TWI647166, TWI579794, CH713826,

Abstract:

Apparatuses, systems, and methods for brewing a desired portion of a beverage, such as a single-cup portion of coffee, are provided. The system can include one or more hopper assemblies configured to provide a controlled dose of beverage material to a brew chamber. The system can also include a water input system configured to wet the ground beverage material as the grinds enter the brew chamber and substantially prevent steam from reaching grinder components of the system. Further, the system can include an automatic cleaning mechanism such that a user does not need to manually clean components of a brewing machine between brew cycles.



8) Family number: 57418442 (US2014261853A)

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Title: BEVERAGE CARAFE LID OPEN/CLOSED DETECTION AND SYSTEM CONTROL

Priority: US20130795671 20130312 WO2014US20460 20140305

Family:

Publication number	Publication date	Application number	Application date
CN105163632 A	20151216	CN201480023602	20140305
CN105163632 B	20171107	CN201480023602	20140305
EP2967250 A1	20160120	EP20140713664	20140305
HK1218700 A1	20170310	HK20160106818	20160614
HK1218700 B	20180907	HK20160106818	20160614
TW201505592 A	20150216	TW20140108168	20140310
TWI609663 B	20180101	TW20140108168	20140310
US2014261853 AA	20140918	US20130795671	20130312
US9554668 BB	20170131	US20130795671	20130312
WO14164085 A1	20141009	WO2014US20460	20140305

Probable Assignee: KEURIG GREEN MOUNTAIN INC

Assignee(s):(std): KEURIG GREEN MOUNTAIN INC ; KEURIG INC

Assignee(s): GREEN MOUNTAIN COFFEE ROASTERS INC ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS

Inventor(s):(std): HAWAT HASSIB ; CARNEVALE PAOLINO ; JACOBS WILLIAM T ; CARNEVALE PAOLINO P ; JACOBS WILLIAM T WT ; HAWAT HASSIB H

Agent(s): HGF LTD; SHANGHAI INTELLECTUAL PROPERTY OFFICE; WOLF GREENFIELD AND SACKS PC; HUNT ROBERT 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 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

International class (IPC 8-9): A47J A47J31/06 A47J31/46 B67D3/00 B67D7/32 (Advanced/Invention);
A47J (Subclass/Invention)

CPC: A47J31/46 B67D3/0006 B67D7/32 A47J31/061

US class: 141/1 99/283

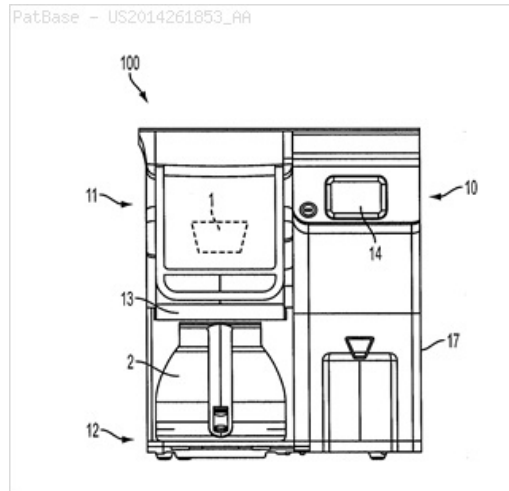
[Classification Explorer](#)

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Forward Citations: US9706873, US9161656, US2013302481, US10028615,

Abstract:

A beverage forming method and system in which a carafe is positionable at a carafe receiving area of a beverage forming machine with a lid of the carafe in an open position or a closed position. The carafe may be positioned at the carafe receiving area in any one of multiple rotational positions within a range of 45 to 180 degrees, and the machine may detect whether the lid is open or not for any of the rotational positions. Beverage forming is prevented if the lid is detected to be closed, allowing the carafe to be safely stored on the machine regardless of lid position.



9) Family number: 11772443 (DE4428471A1)

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Title: Insulating flask used with coffee making machine

Priority: DE19944428471 19940811

Family:	Publication number	Publication date	Application number	Application date
	DE4428471 A1	19960215	DE19944428471	19940811

Probable Assignee: HARTOLIT KUNSTSTOFFTECHNIK AND E

Assignee(s):(std): HARTOLIT KUNSTSTOFFTECHNIK AND E

Assignee(s): HARTOLIT KUNSTSTOFFTECHNIK AND ELECTRONIC GMBH AND ; HARTOLIT KUNSTSTOFFTECHNIK AND ELECTRONIC GMBH AND CO KG 26389 WILHELMSHAVEN DE

International class (IPC 8-9): A47J41/00 (Advanced/Invention);

A47J41/00 (Core/Invention)

International class (IPC 1-7): A47J41/00 B65D39/08 B65D47/06

CPC: A47J41/0027

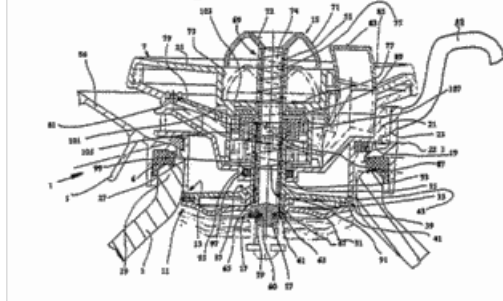
European class: A47J41/00C5

[Classification Explorer](#)

Forward Citations: WO9809558, WO05073124, WO05073124, US7658212, US6216754, JP5152170, JP5152169, JP2010105743, JP2010070265, FR2752712, EP0926974,

Abstract:

The insulating flask has a double-walled insulating glass interior vessel in a protective casing, into which the cap (7) is screwed. The cap contains a locking device (11) operated by a push-button and controlling the outlet aperture for pouring out drinks such as tea or coffee. The cap contains a valve (15) to enable the flask to be filled without unscrewing the cap. When the flask is put in a coffee or tea dispensing machine, the valve member acts with a control member on the machine. This ensures that the inlet aperture (17) in the cap is automatically positively moved from the closed position to the open position.

**10) Family number: 4872448** (US4858523A)

© PatBase

Title: Automatic infusion-beverage apparatus

Priority: US19880218107 19880712 US19890389424 19890803 US19900512764 19900423
 US19900517943 19900502 US19900602361 19901023 CA19912038343 19910315
 US19910805364 19911211

Family:	Publication number	Publication date	Application number	Application date
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	DE4103820 A1	19911024	DE19914103820	19910208
	GB2243284 A1	19911030	GB19910004969	19910308
	GB2243284 B2	19931117	GB19910004969	19910308
	GB9104969 A0	19910424	GB19910004969	19910308
	IT1246602 B	19941124	IT1991MI01035	19910416
	ITMI911035 A0	19910416	IT1991MI01035	19910416
	ITMI911035 A1	19911024	IT1991MI01035	19910416
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	US4967648 A	19901106	US19890389424	19890803
	US5072660 A	19911217	US19900517943	19900502
	US5080008 A	19920114	US19900512764	19900423
	US5094153 A	19920310	US19900602361	19901023
	US5158793 A	19921027	US19910805364	19911211

Probable Assignee: HELBLING**Assignee(s):(std):** EDOWAADO HERUBURINGU ; HELBLING ; HELBLING EDWARD**Assignee(s):** HELBLING EDWARD COMMACK N Y US ; EDWARD HELBLING**Inventor(s):(std):** EDOWAADO HERUBURINGU ; HELBLING EDWARD**Inventor(s):** EDWARD HELBLING ; DER ERFINDER WIRD NACHTRAEGLICH BENANNT**Agent(s):** SWABEY OGILVY RENAULT

International class (IPC 8-9): A47J31/00 A47J31/40 A47J31/46 A47J31/52 (Advanced/Invention);
 A47J31/00 A47J31/40 A47J31/44 (Core/Invention);
 A23F (Subclass/Invention)

International class (IPC 1-7): A23F A47J31/00 A47J31/34 A47J31/40 A47J31/42 A47J31/52

CPC: A47J31/007 A47J31/52 A47J31/405 A47J31/467**European class:** A47J31/00R A47J31/40A A47J31/40G A47J31/46S4 A47J31/52

US class: 426/112 426/231 426/232 426/433 426/79 426/87 99/280 99/283 99/285 99/286 99/289R 99/291 99/294
 99/295 99/298 99/299 99/302R 99/306

JP class F-Term: 4B004 4B004/AA17 4B004/BA02 4B004/BA22 4B004/BA31 4B004/BA33 4B004/BA35 4B004/BA39
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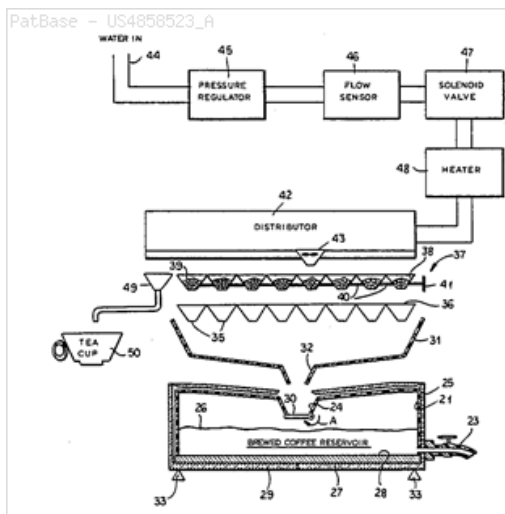
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Forward Citations: WO9960900, WO9412235, WO19165246, WO19077577, WO16193381, WO16029294, WO15109050,
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Abstract:

A coffee brewing machine utilizes a microprocessor controller and, preferably, preformed coffee filter packs in which the filter packs form a rectangular array. The microprocessor controller regulates the temperature of the prepared coffee in the reservoir at the base of the machine, the operation of the water distributor in the swingable lid or cover of the machine and of other operating conditions thereof.



Family:

Publication number	Publication date	Application number	Application date
AT106213 E	19940615	AT19900902235T	19900122
AU199050209 A1	19910117	AU19900050209	19900122
AU199480597 A1	19950522	AU19940080597	19941024
AU646389 B2	19940224	AU19900050209	19900122
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Probable Assignee:

FAEMA SPA

Assignee(s):(std):

FAEMA SPA ; GIULIANO MARIO ; NUOVA FAEMA SPA

Assignee(s):

NUOVA FAEMA S P A MAILAND MILANO ; NUOVA FAEMA S P A MAILAND MILANO IT ; FAEMA S P A ; NUOVA FAEMA S P A

Inventor(s):(std):

GIULIANO MARIO ; MARIO GIULIANO

Inventor(s):

GIULIANO MARIO I 12100 CUNEO IT ; GIULIANO MARIO I 12100 CUNEO

Agent(s):

PHILLIPS ORMONDE FITZPATRICK

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 NE NL NO NZ PL PT RO RU SD SE SI SK SN SU SZ TD TG TJ TT UA US UZ VN

International class (IPC 8-9):A47J31/36 A47J31/40 A47J31/44 (Advanced/Invention);
A47J31/24 A47J31/40 A47J31/44 (Core/Invention)**International class (IPC 1-7):**

A23F A47J31/00 A47J31/12 A47J31/40 A47J43/12

CPC:

A47J31/3614 A47J31/3619 Y10S261/76 A47J31/4485 A47J31/401 A47J31/4482

European class:

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US class:

141/100 222/129.1 261/DIG.76 366/163.2 366/165.2 366/177 99/286 99/287 99/289P 99/289R 99/293 99/302R 99/323.1

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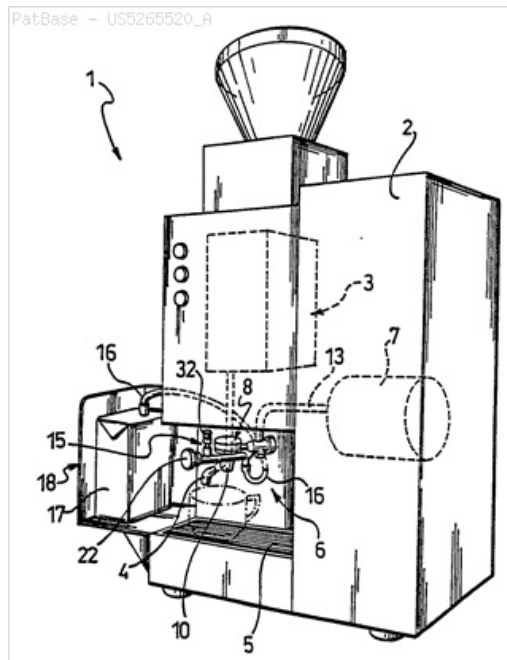
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Forward Citations:

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Abstract:

PCT No. PCT/EP90/00122 Sec. 371 Date Aug. 23, 1991 Sec. 102(e) Date Aug. 23, 1991 PCT Filed Jan. 22, 1990 PCT Pub. No. WO91/00041 PCT Pub. Date Jan. 10, 1991.A machine for dispensing black coffee and white coffee of the cappuccino type, comprises a single housing containing both a coffee dispenser and a steam generator. A milk dispensing device having an emulsifier is connected in cantilever fashion to the housing. The milk dispensing device is connected to the steam generator, to a supply of milk and to an air inlet for producing either emulsified or simply pre-heated milk. A spout for the coffee dispenser is positioned immediately adjacent a spout for the milk dispenser and both are above a deck or platform for supporting a cup which can receive coffee with emulsified milk, coffee with pre-heated milk and coffee alone.



12) Family number: 32202483 (US2008148948A)

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Title: DISPENSING OF A SUBSTANCE

Priority: EP20040075524 20040218 EP20040755424 20040218 EP20040076206 20040421
 EP20080075219 20050211 EP20050707418 20050211 EP20090176849 20050211
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WO05077811 A3	20060330	WO2005EP01541	20050211
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Probable Assignee: MDS GLOBAL HOLDING PLC

Assignee(s):(std): EVERS LUCAS ALPHONSUS MARIA ; MDS GLOBAL HOLDING LTD ; MDS GLOBAL HOLDING P L C ; MDS GLOBAL HOLDINGS LTD ; STERNGOLD EDOUARD ; MDS GLOBAL K HOLDING LTD

Assignee(s): MDS GLOBAL HOLDING PLC

Inventor(s):(std): EDOUARD EVERS LUCAS ALPHONSUS ; EVERS LUCAS ; EVERS LUCAS ALPHONSUS ; EDOUARD STERNGOLD ; MARIA EVERS LUCAS ALPHONSUS ; STERNGOLD EDOUARD ; EHVERS LUKAS AL FONSUS MARIJA ; LUCAS EVERS ; EVERS LUCAS ALPHONSUS MARIA ; STERNGOLD EDOUARD

Inventor(s): LUCAS ALPHONSUS MARIA EVERS ; EVERS LUCAS ALPHONSUS MARIA STERNGOLD EDOUARD ; EHVERS LUKAS AL FONSUS MARIJA ; EVERS LUCAS ALPHONSUS MARIA 3707 CL ; STERNGOLD EDOUARD SLM 3150

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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 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

International class (IPC 8-9): A47J31/00 A47J31/40 A47J31/44 A47J31/56 B32B38/00 B65B11/50 B65B11/52 B65B3/02 B65B47/08 B65B47/10 B65B61/06 B65B69/00 B65B9/04 B65D1/32 B65D47/10 B65D69/00 B65D75/36 B65D75/58 B65D77/20 B65D77/38 B65D81/32 B65D83/00 B65D85/804 B67D1/00 B67D1/04 B67D1/07 B67D1/08 B67D7/22 (Advanced/Invention); B65B9/04 B65D75/58 B65D81/32 B67D1/00 (Advanced/Non-invention); B65D81/00 B67D1/00 (Core/Invention); B67D (Subclass/Invention)

International class (IPC 1-7): B65B61/06 B65B69/00 B65B9/04 B65D75/58 B65D81/32 B67D1/00

CPC: A47J31/4482 A47J31/56 B65B69/005 B65D1/32 B65D77/2064 B65D85/8043 B65D2577/2083 B65D77/38 B65B3/022 A47J31/407

European class: A47J31/40H A47J31/44B A47J31/56 B65B69/00D B65D1/32 B65D77/20E1B4 B65D85/804B L65D577/20P1

US class: 156/242 156/242S 206/229 206/229S 206/459.5 206/459.500S 220/203.08 222/107 222/129.1 222/148 222/148S 222/23 222/23S 222/514 222/514.4 222/541.4 222/541.6 222/541.600S 222/575 222/92 222/95 426/106 426/115 53/410 53/452 53/452S 99/275 99/275P 99/289.00R 99/289R 99/295 99/295P 99/302.00R 99/302R 99/323.3

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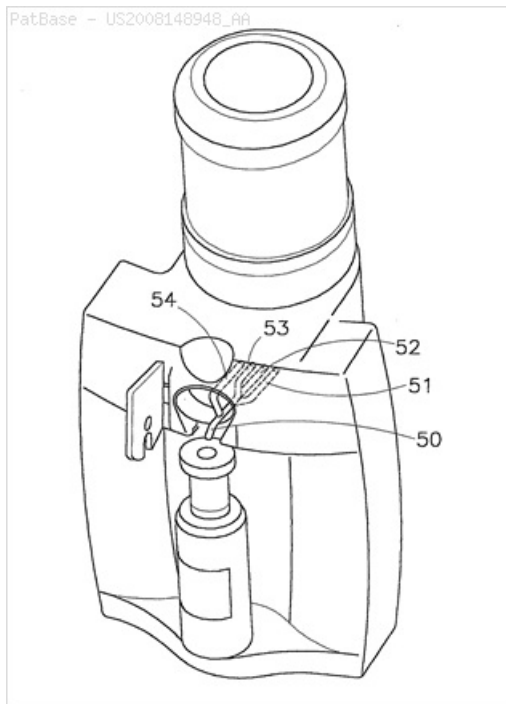
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Abstract:

The invention proposes to dispense a substance from a container (1) filled with a single portion of a substance. The container comprises a preformed deformable body, preferably made of sheet material, defining a filling cavity which body has an opening (6) and an integral planar circumferential rim (5) surrounding said opening, which opening is closed by a cover sheet (7) which is sealed to the circumferential rim (5) by means of a circumferential sealing seam (10). The container with the substance is opened by making use of the deformability of the cover sheet (7). A support surface supports the cover sheet (7) except at the position of a recess (10 b). The recess (10 b) is positioned at least over a part of the circumferential sealing seam. Upon compression of the container body the substance is pressurized and the cover sheet (7) bulges out into the recess (10 b) such that the sealing seam (10) is broken at the location where the bulge is formed resulting in the container being open.



13) Family number: 59636532 (US2016309763A)

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Title:	DEVICE FOR PREPARATION OF GELATIN-BASED PRODUCTS			
Priority:	US20130920372P 20131223	US20140107896 20141223	WO2014US72286 20141223	
Family:	Publication number	Publication date	Application number	Application date
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Probable Assignee: FOOD AND BEVERAGE INNOVATIONS LLC

Assignee(s):(std): FOOD AND BEVERAGE INNOVATIONS LLC

Assignee(s): GRAVES IAN ; GURSKI THOMAS ; RIVERS KEVIN ; KENNEDY BRIAN ; JETTON JEFF ; COVEY JASON

Inventor(s):(std): GURSKI THOMAS ; JETTON JEFF ; GRAVES IAN ; COVEY JASON ; KENNEDY BRIAN ; RIVERS KEVIN

Agent(s): SMOORENBURG PATENT AND TRADE MARK ATTORNEYS; BEN OLIEL SUSAN M; HICKS INTELLECTUAL PROPERTY LAW; LAUFHUETTE DIETER; RUSSELL JOHN 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

International class (IPC 8-9): A23J3/06 A23L1/05 A23L29/20 A23L29/281 A23P10/30 A23P30/00 A23P30/10 A47J43/04 A47J43/044 A47J43/07 C12G3/00 (Advanced/Invention)

CPC: A23L29/281 A23L1/05625 A23L29/284 A23P30/10 A23V2002/00 A47J43/04 A47J43/044 A47J43/0705 A23G3/0025 A23G3/0252

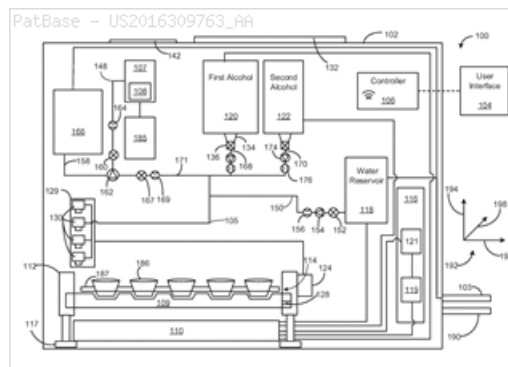
US class: 1/1 426/231

[Classification Explorer](#)

Cited documents: WO9848642 A1, WO11096979 A2, US6303175 BA, US2013340629 AA, US2006099316 AA, US2004013783 AA, US2003190394 AA, JP2007319108 A2, EP1570745 A1, CN1054524 A,

Forward Citations: WO18140901, WO17152138, US2018049582, US10251417, US10064513,

Abstract:
Methods and systems are provided for preparing a gelatin-based product. In one example, a device for preparing the gelatin-based product includes a mixing chamber, a first liquid reservoir fluidically coupled to the mixing chamber, and a chiller module. The device further includes a slideable tray including a number of slots for receiving a number of fluid vessels and an injection assembly fluidly coupled to the mixing chamber and positioned vertically above the tray.



14) Family number: 29466559 (US4829889A)

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Title: Dispenser

Priority: JP19870135625 19870530 JP19450001291 19870827 JP19870129145U 19870827
JP19870129145 19870827 JP19100001908 19871216 JP19870190810U 19871216
JP19870190810 19871216 CA19880567739 19880526

Family:	Publication number	Publication date	Application number	Application date
	AU198816737 A1	19881201	AU19880016737	19880527
	AU591044 B2	19891123	AU19880016737	19880527
	CA1280903 A1	19910305	CA19880567739	19880526
	GB2205229 A1	19881207	GB19880012712	19880527
	GB2205229 B2	19910703	GB19880012712	19880527
	GB8812712 A0	19880629	GB19880012712	19880527
	JP1035887 U1	19890303	JP19870129145U	19870827
	JP1096137 U1	19890626	JP19870190810U	19871216
	JP1626199 C3	19911128	JP19870135625	19870530
	JP1893711 Y	19920727	JP19870190810U	19871216
	JP2053044 B4	19901115	JP19870135625	19870530
	JP3016581 Y2	19910409	JP19870190810U	19871216
	JP63300719 A2	19881207	JP19870135625	19870530
	JP64035887 U1	19890303	JP19870129145U	19870827
	KR19880013515 A	19881221	KR19880006291	19880528
	KR910005039 B1	19910722	KR19880006291	19880528
	US4829889 A	19890516	US19880199786	19880527

Probable Assignee: NITTO KOHKI CO

Assignee(s):(std): KEY COFFEE CO LTD ; KEY COFFEE INC ; NITTO KOHKI CO ; NITTO KOHKI CO LTD

Assignee(s): KIMURA KOOHITEN KK ; KEY COFFEE CO ; TAKANAKA AKIRA ; SATO TOSHIO ; NOZAWA NOBUYUKI ; NISHIKIORI MASANORI ; TAKEUCHI HIROSATO ; NITSUTO KOKI KK

Inventor(s):(std): SATO TOSHIO ; NISHIGORI MASANORI ; TAKEUCHI HIROTATSU ; NISHIKORI MASANORI ; NISHIKIORI MASANORI ; TAKANAKA AKIRA ; HISHIKIORI MASANORI ; NOZAWA NOBUYUKI ; SATO TOSHIO ; TAKEUCHI HIROSATO

Inventor(s): NOBUYUKI NOZAWA ; TOSHIO SATO ; AKIRA TAKANAKA ; MASANORI NISHIKORI ; HIROSATO TAKEUCHI ; MASANORI NISHIKIORI ; MASANORI HISHIKIORI

Agent(s): GRIFFITH HACK; G RONALD BELL AND ASSOCIATES

International class (IPC 8-9): A47J31/00 A47J31/043 A47J31/06 A47J31/10 A47J31/24 A47J31/32 A47J31/36 A47J31/40 A47J31/41 A47J31/44 B65D81/00 B65D83/08 B65D85/804 G07F13/06 (Advanced/Invention); A47J31/06 B65D85/804 (Advanced/Non-invention); A47J31/00 A47J31/04 A47J31/06 A47J31/24 A47J31/40 A47J31/44 B65D81/00 B65D83/08 B65D85/804 G07F13/06 (Core/Invention)

International class (IPC 1-7): A47J31/00 A47J31/043 A47J31/06 A47J31/10 A47J31/24 A47J31/32 A47J31/34 A47J31/40 A47J31/41 A47J31/44 B65D83/08 G07F13/06

CPC: A47J31/0668 A47J31/3633 A47J31/3642 B65D85/8043

European class: A47J31/06P4 A47J31/36A4D A47J31/36A4H A47J31/40A A47J31/40B A47J31/40B2 A47J31/40G A47J31/40H B65D81/00B3 B65D85/804B

US class: 99/285 99/289P 99/302R

JP class F-Term: 3E014 3E014/MC07 3E014/MC08 3E017 3E017/GA08 4B004 4B004/AA11 4B004/BA41 4B004/BA46 4B004/CA16 4B104 4B104/AA20 4B104/BA43 4B104/BA45 4B104/BA46 4B104/BA47 4B104/BA79 4B104/BA82 4B104/BA90 4B104/CA13 4B104/CA27 4B104/EA10 4B104/EA20 4B104/EA29 4B104/BA53 4B104/BA57 4B104/BA81 4B104/EA28 3E047 3E047/AA02 3E047/BA01 3E047/DA01 3E047/DA10 3E047/DB07 3E047/DC08 3E047/EC02 3E047/EC05 3E047/EC09 3E047/ED04 3E047/ED05 3E047/FA01 3E047/GA06 3E047/GA10 3E047/HA09 4B004/AA18 4B004/BA04 4B004/BA21 4B004/BA35 4B004/BA39 4B004/BA40 4B004/CA12 4B004/CA17 4B104/AA17 4B104/AA18 4B104/AA22 4B104/AA30 4B104/BA15 4B104/BA16 4B104/BA17 4B104/BA18 4B104/BA20 4B104/BA23 4B104/BA29 4B104/BA33 4B104/BA36 4B104/BA73 4B104/BA78 4B104/CA18 4B104/CA19 4B104/EA06 4B104/EA13 4B104/EA18 4B104/EA21 4B104/EA22 4B104/EA23 4B104/EA25 4B104/EA30 4B104/EA32

JP class F-Index: A47J31/36/124 A47J31/44/Z B65D83/08/G A47J31/00/G A47J31/40 A47J31/00/B A47J31/043 A47J31/06/320 A47J31/24 A47J31/32 A47J31/46 G07F13/06/103

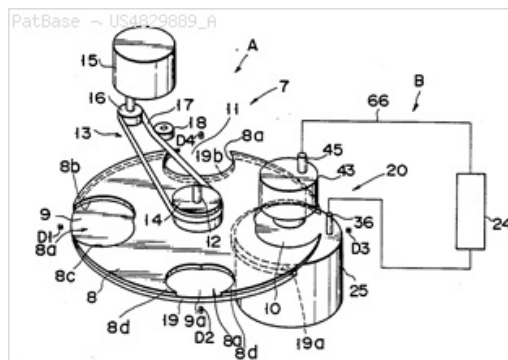
[Classification Explorer](#)

Cited documents: US4602558 A, US4506596 A, US4426919 A, US4421014 A, US4418614 A, US4389925 A, US4357861 A, US4253385 A, US3327615 A, US3055286 A, US2952202 A, US2899885 A, JP49044435 A2, AU254812 A1, AU235134 A1,

Forward Citations: WO9320737, WO9320737, WO9206600, WO16134255, WO08113459, WO07050315, WO07042485, WO06122879, WO06029109, WO06029109, WO0154550, WO0025643, US9757309, US9669992, US9474405, US9248955, US9114902, US9062912, US8726789, US8522668, US8505440, US8399035, US8327754, US7987768, US7964230, US7947316, US7857164, US7856919, US7793797, US7444925, US7051646, US6948420, US6941855, US6786134, US6745668, US6240832, US5921168, US5855161, US5403605, US5228308, US4941399, US2017020328, US2016287479, US2016100710, US2015257586, US2013344206, US2010260908, US2010107885, US2010064899, US2010034943, US2009242070, US2008314256, US2008038441, US2008028948, US2007261564, US2007246478, US2007186780, US2007181005, US2007170203, US2005241489, US2005188854, US2005183581, US2005095158, US2005061158, US2005016383, US2005000366, US2004255790, US2004129145, US2004089158, US10405690, US10285532, US10194769, US10070751, RU2575814, RU2566475, KR101934122, KR101539051, KR101018810, JP6516682, JP64009594, JP6183192, JP5285046, JP5021137, JP4739631, JP3392892, JP3150407, JP2289207, JP2015076021, JP2011522568, JP2011518597, JP2009511099, JP2003531661, JP2003521294, JP1009594, ITMI20100738, ITBO20110036, FR2804002, EP3410900, EP3258820, EP2274210, EP2274210, EP1796518, EP1772081, EP1250077, EP0784955, EP0740919, EP0663805, EP0663805, EP0607159, EP0607159, EP0484060, EP0484060, CN105744927, CN105744927,

Abstract:

A dispenser includes a cartridge moving mechanism and a hopper. The cartridge moving mechanism moves between a cartridge receiving position and an extracting position and between the extracting position and a cartridge exhaust position. The hopper has a dropping unit and is disposed immediately above the cartridge receiving position. The dropping unit serves to drop a cartridge consisting of a fluid-impermeable outer frame and a filters. A space defined between the filters and the outer frame and contains a powdery or granular material to be extracted. An extracting mechanism of the dispenser has an upper extracting head, and a lower extracting head including an extracting tank. The upper extracting head is provided above the extracting position and has an extracting chamber. The extracting tank is provided below the extracting position to face the upper extracting head, and another extracting chamber is formed in the extracting tank. The lower extracting head has a heater for heating the extracting tank and a liquid heating passage communicating with the extracting chamber. The dispenser effectively obtains an extract from the material of the cartridge by dripping.



Title: LIQUID HEATING APPARATUS AND OPERATING METHODS

Priority: WO2014GB50174 20130122 GB20130001297 20130124 EP20140701605 20140122
WO2014GB50174 20140122

Family:	Publication number	Publication date	Application number	Application date
	AU2014208971 AA	20150709	AU20140208971	20140122
	AU2014208971 BB	20181011	AU20140208971	20140122
	CN104955366 A	20150930	CN201480006057	20140122
	CN104955366 B	20180427	CN201480006057	20140122
	DE602014024379 D1	20180524	DE201460024379T	20140122
	EP2948032 A1	20151202	EP20140701605	20140122
	EP2948032 B1	20180425	EP20140701605	20140122
	ES2670804 T3	20180601	ES20140701605T	20140122
	GB201301297 A0	20130306	GB20130001297	20130124
	HK1211448 A1	20160527	HK20150112272	20151214
	IN05338DN2015 A	20160108	IN2015DN05338	20150618
	JP2016504139 T2	20160212	JP20150554246T	20140122
	JP6416121 B2	20181031	JP20150554246T	20140122
	RU2015132171 A	20170302	RU20150132171	20140122
	RU2627212 C2	20170803	RU20150132171	20140122
	TR201807561 T4	20180621	TR20180007561T	20140122
	US2016045062 AA	20160218	US20130763433	20130122
	US2016045062 AA	20160218	US20140763433	20140122
	US10226152 BB	20190312	US20140763433	20140122
	WO14114935 A1	20140731	WO2014GB50174	20140122
	ZA201504527 A	20171129	ZA20150004527	20140122

Probable Assignee: STRIX LTD

Assignee(s):(std): STRIKS LTD ; STRIX LTD ; STRIX LTD INC UNDER LAWS OF UNITED KINGDOM

Assignee(s): STRIX LTD RONALDSWAY ; STRIX LIMITED ; STRIX INC UNDER LAWS OF UNITED KINGDOM LTD

Inventor(s):(std): HOWITT JAMES ; MOUGHTON COLIN PETER ; KHAUVITT DZHEJMS ; MOUTON KOLIN PITER ; JAMES HOWITT ; COLIN PETER MOUGHTON

Agent(s): COTTERS PATENT AND TRADE MARK ATTORNEYS; RAMSAY LAURA ANNE; ISERN JORGE; PANG FUK YAN; IKEUCHI SATO AND PARTNER PATENT ATTORNEYS; ERDEM KAYA; O SHEA GETZ PC

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

International class (IPC 8-9): A47J A47J27/21 A47J31/40 A47J31/54 A47J31/56 F24H1/18 (Advanced/Invention); A47J (Subclass/Invention)

CPC: A47J31/545 A47J31/56 A47J31/401 A47J31/402 A47J31/54

US class: 222/146.5 222/54

JP class F-Term: 4B055 4B055/AA34 4B055/BA09 4B055/CD02 4B055/CD61 4B055/DA07 4B055/GA04 4B055/GB08 4B055/GC04 4B055/GC14 4B055/GC31 4B055/GC32 4B055/GC40 4B055/GD02

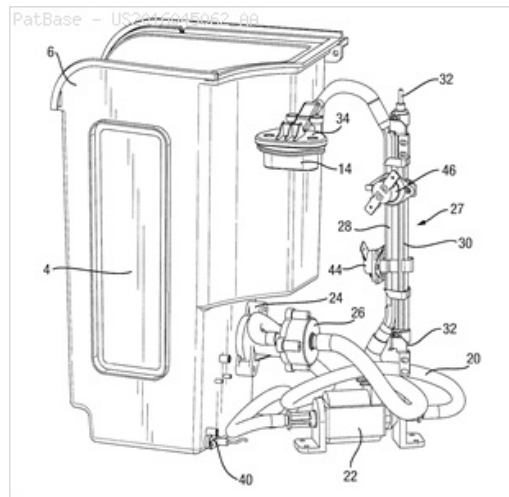
JP class F-Index: A47J27/21/101/J A47J27/21/101/T A47J27/21/101/U A47J27/21/101/V

[Classification Explorer](#)

Cited documents: WO13100486 A1, WO13024286, WO12114092 A2, WO12114092, WO12093269 A2, WO12093269 A2, WO11157675 A1, WO11157675 A1, WO11157576 A1, WO11089434 A2, WO11077135, WO10106349 A2, WO10106349 A2, WO10106348 A2, WO08099322 A2, WO08099322 A2, WO0119224 A1, US7870975 BB, US6766106 BB, US6411777 BB, US6253028 BA, US6118933 A, US5671325 A, US5408917 A, US5397031 A, US2014233928 AA, US2014093225 AA, US2013337132 AA, US2013094841 AA, US2012128338 AA, US2011213505 AA, US2011127255 AA, US2011121350 AA, US2010326285 AA, US2010101427 AA, US2009183637 AA, US2009151574 AA, US2009120161 AA, US2008191651 AA, US2008160153 AA, US2008160153, US2008041236 AA, US2007056449 AA, US2006096465 AA, US2004187693 AA, US2002175162 AA, US2002127005 AA, US2001012448 AA, RU2136097 C1, RU2007113820 A, KR100827383 B1, JP2012527282 T2, JP2012527282, JP2012061127 A2, JP2012061127, JP2010524550 T2, JP2010524550, JP2010519688 T2, JP2010519688, JP2004288160 A2, JP2004288160, JP2003325329 A2, EP2074916 A1, EP1462043 A1, EP1462043 A1, CN201177768 Y, CN201165611 Y, CN102946776 A, CN102595985 A,

Forward Citations: WO17029127, US2017099982, EP3294100, EP3192410, DE102017112657, CN107072425, CN106136881,

Abstract:
An apparatus for dispensing a predetermined volume of a warm liquid includes a heater, a pump and a temperature sensor sensitive to the temperature of the liquid upstream of the heater. A controller is arranged to receive upstream temperature data from the temperature sensor, calculate the amount of energy required to reach a desired final temperature, energize the heater for a calculated period of ON time, and dispense liquid for a calculated period of time that is at least partly contemporaneous with the calculated period of ON time. After the heater has been de-energized, the dispensed liquid removes residual heat so that the average temperature after dispensing the predetermined volume is the desired final temperature.



16) Family number: 24043618 (US5669287A) © PatBase

Title: Coffee and tea brewing apparatus and system
Priority: US19950504701 19950720 WO1996US11972 19960719 US19970855063 19970513
US19990401718 19990923

Family:	Publication number	Publication date	Application number	Application date
	AU199665499 A1	19970218	AU19960065499	19960719
	AU717016 B2	20000316	AU19960065499	19960719
	BRPI9606533 A	19971223	BR1996PI06533	19960719
	CA2200458 AA	19970319	CA19962200458	19960719
	CN1165472 A	19971119	CN19961091046	19960719
	EP0781098 A1	19970702	EP19960925378	19960719
	EP0781098 A4	20010117	EP19960925378	19960719
	JP10506316 T2	19980623	JP19970506900T	19960719
	KR19970705942 A	19971103	KR19970701957	19970320
	KR19977005942 A	19971103	KR19977001957	19960719
	RU97106341 A	19990420	RU19970106341	19970421
	US5669287 A	19970923	US19950504701	19950720
	US5980965 A	19991109	US19970855063	19970513
	USRE37173 E	20010515	US19990401718	19990923
	WO9703568 A1	19970206	WO1996US11972	19960719

Probable Assignee: SRI INT
Assignee(s):(std): HARRY D JEFFERSON JR ; JEFFERSON HARRY D ; JEFFERSON HARRY D JR ; JEFFERSON JR HARRY D
Assignee(s): SRI INT ; PLOEGER DALE W
Inventor(s):(std): JEFFERSON HARRY D ; JEFFERSON HARRY D JR ; JEFFERSON JR HARRY D ; PLOEGER D W ; PLOEGER DALE W
Inventor(s): D W PLOEGER ; DALE W PLOEGER ; HARRY D JEFFERSON ; HARRY D JEFFERSON JR
Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR
Designated states: AL AM AT AU AZ 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 IL IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TG TJ TM TR TT UA UG UZ VN

International class (IPC 8-9): A23F5/24 A23F5/26 A47J31/00 A47J31/02 A47J31/06 A47J31/44 (Advanced/Invention); A23F5/00 A23F5/24 A47J31/00 A47J31/02 (Advanced/Non-invention); A23F5/24 A47J31/00 A47J31/02 A47J31/06 (Core/Invention)

International class (IPC 1-7): A23F3/00 A23F3/34 A23F5/00 A23F5/24 A23F5/26 A47J31/00 A47J31/02 A47J31/06 A47J31/44 A47J37/00

CPC: A23F5/26 A23F5/262 A47J31/002 A47J31/0621
European class: A23F5/26 A23F5/26B A47J31/00M A47J31/06F
US class: 426/433 426/435 426/595 426/597 99/283 99/295 99/299 99/302R 99/304

JP class F-Term: 4B004 4B004/AA12 4B004/BA03 4B004/BA31 4B027 4B027/FB21 4B027/FC02 4B027/FQ08 4B027/FR09 4B104 4B104/AA14 4B104/AA17 4B104/AA29 4B104/BA16 4B104/BA17 4B104/BA19 4B104/BA23 4B104/BA36 4B104/BA41 4B104/BA43 4B104/BA44 4B104/BA45 4B104/BA46 4B104/BA48 4B104/BA53 4B104/BA57 4B104/BA63 4B104/BA66 4B104/BA77 4B104/BA78 4B104/BA81 4B104/BA82 4B104/BA83 4B104/BA89 4B104/BA90 4B104/CA02 4B104/CA05 4B104/CA18 4B104/CA19 4B104/CA27 4B104/CA30 4B104/DA11 4B104/DA30 4B104/DA40 4B104/DA44 4B104/EA02 4B104/EA13 4B104/EA29 4B104/EA30

JP class F-Index: A23F5/24 A47J31/02 A47J31/06/140 A47J31/10/103 A47J31/52 A47J31/56

[Classification Explorer](#)

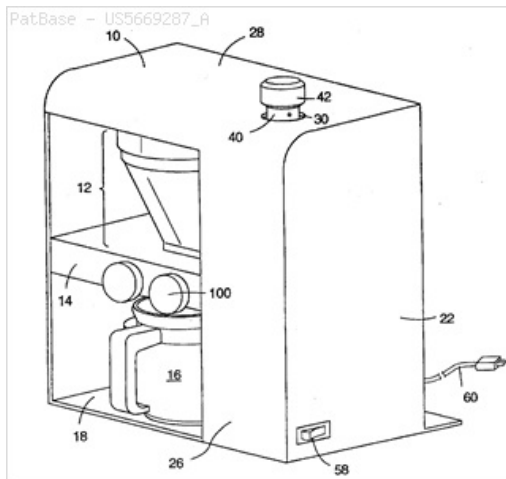
Cited documents: US5478586 A, US5461968 A, US5063837 A, US4922809 A, US4911067 A, US4904845 A, US4893552 A, US4888466 A, US4882983 A, US4843955 A, US4805523 A, US4790240 A, US4634838 A, US4550027 A, US4343232 A, US4191100 A, US4149454 A, US4108053 A, US4099453 A, US3927608 A, US3423209 A, US2599682 A, GB2260891 A1, EP0019291 A1, DEA2347901, DE3935384 A1, DE2839295 A1, DE234790 A, DD234790 Z, DD234790 A1,

Forward Citations:

WO15102734, WO14207674, WO12046516, USD829465, USD818741, USD797487, USD785970, USD773848, USD770798, USD699475, USD693597, USD690548, USD674636, USD663983, USD659452, USD642005, USD589738, USD460660, USD459152, USD442430, USD423284, US9763546, US9559539, US9427104, US9351601, US9332875, US9271597, US9265383, US9259116, US9232872, US9232871, US9173519, US9125521, US8911811, US8904923, US8900648, US8850958, US8739687, US8678244, US8635946, US8387517, US8225712, US8109411, US8096445, US8087543, US8062684, US8003145, US7966927, US7836820, US7815955, US7739946, US7698992, US7673556, US7594469, US7565860, US7455867, US7243597, US6772676, US6576282, US6565906, US6425317, US6382083, US5906844, US2017354290, US2016183717, US2015182063, US2014366741, US2014242226, US2014116257, US2014102306, US2013098249, US2012276264, US2012207896, US2012207895, US2011308399, US2011236546, US2011114669, US2011036243, US2010011964, US2009317526, US2009136632, US2009090246, US2009074930, US2008314255, US2008092747, US2008000357, US2007283815, US2007209525, US2007193451, US2007186781, US2007141215, US2007107604, US2006041154, US2006011067, US2004244599, US2004226452, US2004187694, US2004163543, US10342380, US10076216, US10064515, NL1020835, EP2625989, EP2428143, EP2091344, EP2091344, EP1978851, EP1978851, CN105916799, CN105615662, CN105615662,

Abstract:

A method and system for brewing a desired volume of coffee at a selected brew time, in which a volume of water corresponding to the desired volume of coffee is heated and directed into contact with coffee grounds in a brewing chamber. Contact between at least a portion of the heated water and the coffee grounds is maintained for approximately the selected brew time to form brewed coffee. The brewing time, however, is substantially independent of the desired volume of coffee to be brewed and is controlled by control of the rate at which heated liquid flows into or out of the brewing chamber. At the expiration of the brewing time, brewed coffee is released through an opening in the brewing chamber and into an underlying receptacle.

**17) Family number: 54755619** (US2013239817A)

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Title: KITCHEN APPLIANCE FOR PREPARING A BEVERAGE AND METHOD OF OPERATING SAME
Priority: US20120610649P 20120314 US20130754158 20130130 US20130863937 20130416
US20130949394 20130724 US20140484936F 20140314 US20140321941 20140702
US20160096904 20160412 US20160298814 20161020

Family:	Publication number	Publication date	Application number	Application date
	CN103300727 A	20130918	CN201310073410	20130307
	CN103300727 B	20160511	CN201310073410	20130307
	CN103960975 A	20140806	CN201310657007	20131206
	CN103960975 B	20170606	CN201310657007	20131206
	CN107960868 A	20180427	CN201710979462	20171019
	HK1188099 A1	20170519	HK20140101315	20140212
	HK1188099 A1	20140425	HK20140101315	20140212
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Probable Assignee: HAMILTON BEACH BRANDS INC

Assignee(s):(std): HAMILTON BEACH BRANDS INC ; HAMILTON COMPLETED KEBU LANDERS LTD

Inventor(s):(std): HANES ADAM ; MULVANEY PATRICK T ; STARR WILLIAM D ; STARR WILLIAM D ; OLSON LARRY ; HANES ADAM A ; STARR WILLIAM D WD ; MULVANEY PATRICK T PT ; BOCK BRIAN ; ADAM HANES ; PATRICK T MULVANEY ; LARRY OLSON ; WILLIAM D STARR

Inventor(s): WILLIAM DSTARR
Agent(s): CHAN TANG AND KWOK; ALEXANDER D; RARING ALEXANDER D
International class (IPC 8-9): A23F3/18 A23F5/26 A47J A47J31/00 A47J31/057 A47J31/24 A47J31/34 A47J31/40 A47J31/44 A47J31/46 A47J31/54 A47J31/56 (Advanced/Invention); A47J31/36 (Advanced/Non-invention); A47J (Subclass/Invention)
CPC: A47J31/56 A47J31/465 A47J31/407 A47J31/46 A23F3/18 A23F5/262 A47J31/34 A47J31/462 A47J31/54 A47J31/542 A47J31/0573 A47J31/0576 A47J31/467 A47J31/24 A47J31/36
US class: 1/1 426/431 99/280 99/283 99/295 99/300 99/302R 99/317 D7/306 D7/311
Locarno class: 07/01

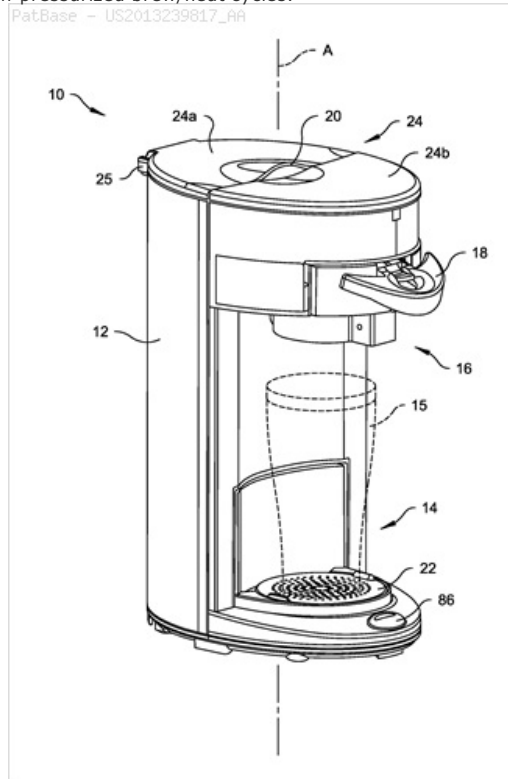
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Cited documents: WO9216136 A1, USD635813 S1, USD623461 S1, USD622536 S1, USD620302 S1, USD571598 S1, USD570149 S1, USD559611 S1, USD558506 S1, USD546112 S1, USD514867 S1, USD514865 S1, USD382437 S1, USD381237 S1, USD343757 S1, US9386876 BB, US9332876 BB, US9113748 BB, US8726789 BB, US8516949 BB, US8087347 BB, US8033211 BB, US7997187 BB, US7856920 BB, US7677157 BB, US7513192 BB, US7469628 BB, US7398726 BB, US7347138 BB, US7097074 BB, US7059239 BB, US7047870 BB, US7032502 BB, US6904840 BA, US6840158 BB, US6835915 BB, US6829981 BB, US6708600 BB, US6606938 BB, US6575081 BB, US6561079 BA, US6536332 BB, US6499388 BB, US6405637 BA, US6360650 BA, US6182554 BA, US6142063 A, US6079315 A, US6062127 A, US5901636 A, US5778765 A, US5490448 A, US5460078 A, US5363745 A, US5347916 A, US5325765 A, US5242702 A, US5197374 A, US5111740 A, US4815366 A, US4784051 A, US4457214 A, US4224503 A, US4189991 A, US4143589 A, US4121508 A, US4109670 A, US3975996 A, US3260190 A, US2783703 A, US2013236618 AA, US2013171311 AA, US2013108249 AA, US2013095212 AA, US2013004629 AA, US2012210876 AA, US2012052171 AA, US2011168029 AA, US2011061542 AA, US2010193528 AA, US2010162898 AA, US2009266238 AA, US2008115674 AA, US2008041231 AA, US2005236431 AA, US2005003052 AA, US2003066431 AA, JP5207936 A2, JP4889014 B2, JP3489189 B2, JP2009504344 T2, GB2374796 A1, EP1774879 A1, DE2932053 A1, CN2610813 Y, CN2559192 Y, CN2204551 Y, CN202154519 U, CN202022190 U, CN201189094 Y, CN102362782 A, CN101808554 A, CN101342053 A, CN101091621 A, CN104856574, CN104856571,

Forward Citations: WO18029538, WO16073428, USD854363, USD843153, USD764020, USD758118, US9980321, US9795245, US9771552, US9706873, US9642384, US9345359, US9320382, US9307860, US2017099983, US2016338528, US2016309945, US2016223117, US2016007794, US2013239817, US10314320, US10301583, US10264912, US10188236, US10111554, US10080459, US10045654, US10034570, US10028615, EP3449782, EP3170430, DE102017212112, CN107157327, CN107136940, CN107105932, CN104856574, CN104856571,

Abstract:

A kitchen appliance includes a first reservoir for receiving a liquid to be used for preparing a beverage and a hot water generator ('HWG') which has an inlet end, an outlet end and a passageway therebetween. The inlet end of the HWG is connected to the first reservoir. Liquid from the first reservoir flows into the HWG through the inlet end. A second reservoir is connected to the outlet end of the HWG. The second reservoir includes a discharge port. A fluid path connects the first and second reservoirs and bypasses the HWG. The kitchen appliance is operable for both pressurized brew/heat cycles and un-pressurized brew/heat cycles.



18) Family number: 53194644 (US2013062366A)

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Title:	BEVERAGE MAKER		
Priority:	US20110532692P 20110909 US20120604825 20120906	US20110581722P 20111230 WO2012US53847 20120906	US20110581772P 20111230 US20120726028 20121222

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US20160152171 20160511 US20160261132 20160909

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: FOUNTAIN MASTER LLC

Assignee(s):(std): AMMERLAAN AAD ; FOUNTAIN MASTER LLC ; TANSEY FRANCIS X JR ; TANSEY FRANCIS X ; RIJK ZWAAN
ZAADTEELT EN ZAADHANDEL BV ; TANSEY JR FRANCIS X

Inventor(s):(std): TANSEY FRANCIS X JR ; AMMERLAAN AAD ; TANSEY JR FRANCIS X ; TANSEY FRANCIS X

Agent(s): KOITEL RAIVO; GEARHART LAW LLC; THOMAS J; VEDDER PRICE PC; DEBORAH L; GEARHART RICHARD

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
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International class (IPC 8-9): A01H5/12 A23L2/40 A23L2/54 A47J31/00 A47J31/40 A47J31/44 B65D35/28 B65D47/20 B65D75/58
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G08C17/00 (Advanced/Invention);
B65D1/02 B65D1/09 B65D35/28 B65D75/58 B65D85/804 B67D1/08 (Advanced/Non-invention)

CPC: C12N15/8286 A01H5/12 C12N15/8282 C12N15/8283 A47J31/4492 B67D1/0001 B67D1/0078 B67D1/0462
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US class: 1/1 206/216 206/459.5 206/524.1 222/1 222/101 222/102 222/105 222/129.1 222/145.1 222/145.5
222/146.6 222/190 222/212 222/214 222/325 222/399 222/541.1 222/541.3 222/571 222/82 222/95
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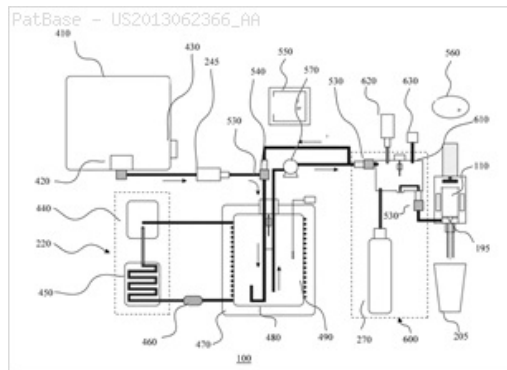
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EP0278773 A2, CN101080358 A, AU2011202602 AA, AU2011202602 A1,

Forward Citations: WO19061644, WO19056400, WO18071477, WO17221183, WO17121800, WO17121799, WO17071163,
WO17032732, WO16179052, WO16064781, WO16064779, WO15191778, WO15191648, WO15101571,
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EP3517491, EP3341320, EP3272703, EP3267856, EP3263480, EP3171747, EP3089927, CN108137305,
CN107922178, CN107427146, CN107105927, CN106744610, CN106744610, CN104116408,

Abstract:

A device for dispensing individual servings of a cold beverage, either having a refrigeration unit to chill the beverage or a removable pitcher that may be put in a refrigerator. A special disposable beverage cartridge or beverage pouch fits into the holder. This cartridge or pouch may have pressure rupturable seals or diaphragms and contain beverage concentrate. A dispensing mechanism puts pressure on the cartridge or the pouch to break the pressure rupturable seal or diaphragm to discharge the concentrate into a mixing structure. The mixing structure also receives chilled liquid from the refrigeration unit or the pitcher, and ensures that the concentrate mixes with the liquid without contacting the walls of the mixing structure.



19) Family number: 46628648 (US2012024160A)

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Title:	COFFEE BEAN PACKAGING CARTRIDGE AND COFFEE BEVERAGE SYSTEM INCLUDING SAME							
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Family:

Publication number	Publication date	Application number	Application date
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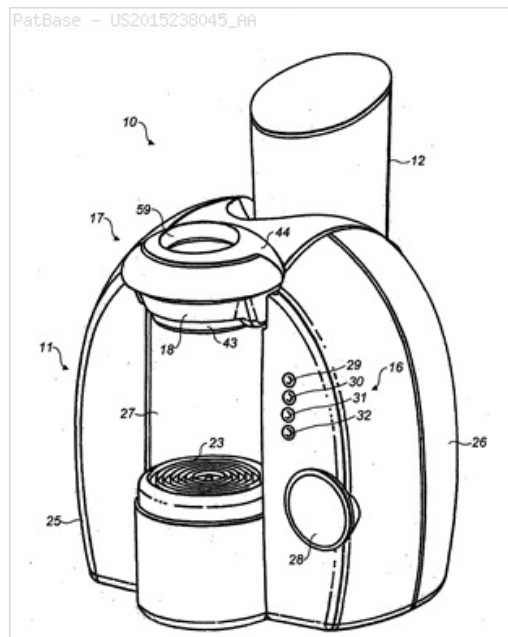
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Designated states:	AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS 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
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Probable Assignee:	DOUWE EGBERTS BV KONINKLL																																																																																																																							
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Inventor(s):(std):	HANSEN NICHOLAS ; HANSEN NICHOLAS N ; NORTON MARK M ; NICHOLAS HANSEN ; KHENSEN NIKOLAS ; MARK NORTON ; NORTON MARK ; HANSEN NICK ANDREW																																																																																																																							
Inventor(s):	NICK ANDREW HANSEN																																																																																																																							
Agent(s):	GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; BEETZ AND PARTNER MBB PATENT U RECHTSANWALTE; BOULT WADE TENNANT; WILKINSON AND GRIST; FITCH EVEN TABIN AND FLANNERY 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 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																																																																																																																							
International class (IPC 8-9):	A47J A47J31/36 A47J31/40 A47J31/46 A47J31/60 B67D1/00 B67D1/07 B67D1/08 (Advanced/Invention); A47J (Subclass/Invention)																																																																																																																							
CPC:	A47J31/407 A47J31/60 B67D1/0895 B67D1/0078 B67D1/07 B67D1/0029 A47J31/46 A47J31/369																																																																																																																							
US class:	1/1 222/1 222/481 99/295																																																																																																																							
JP class F-Term:	4B104 4B104/AA12 4B104/AA16 4B104/AA20 4B104/BA15 4B104/BA57 4B104/BA66 4B104/BA68 4B104/BA72 4B104/BA79 4B104/BA81 4B104/BA82 4B104/CA07 4B104/CA18 4B104/DA57 4B104/EA17 4B104/EA19 3E082 3E082/AA02 3E082/BB01 3E082/CC10 3E082/DD09 3E082/EE01 3E082/FF09 4B104/BA17 4B104/BA18 4B104/BA20 4B104/BA21 4B104/BA23 4B104/BA29 4B104/BA35 4B104/BA70 4B104/BA71 4B104/CA04 4B104/CA06 4B104/DA11 4B104/DA40 4B104/DA58																																																																																																																							
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Cited documents:	WO12072758 A1, WO11095511 A1, WO11074958 A1, WO09138313 A1, WO07035877 A2, WO07027206 A2, WO06014936 A2, WO06014936, US7673557 BB, US7407117 BB, US7281673 BB, US6866208 BB, US6279329 BA, US6076729 A, US5826622 A, US5645222 A, US5350082 A, US4829888 A, US4759634 A, US4550652 A, US3520247 A, US3517859 A, US3479949 A, US2485723 A, US2437025 A, US2132333 A, US2012199012 AA, US2009293733 AA, US2009101019 AA, US2008069930 AA, US2007034087 AA, US2007000944 AA, US2006283330 AA, US2006108023 AA, RU2008107329 A, KR20080110573 A, KR20080068664 A, JP956595 A2, JP956595, JP9075224 A2, JP9056595 A2, JP6232494 Y2, JP62032494 Y2, JP3889840 B2, JP2011520485 T2, JP2009525056 T2, JP2008531162 T2, JP200843695, JP2008043695 A2, JP2003525671 T2, GB2449307 A1, FR2726454 A1, EP1440903 A1, EP1440903, EP1440644 A1, EP1440644, EP0791321 B1, EP0389141 A1, EP0389141, EP0334572 A1, EP0334572, EP0151500 A1, DE3742930 C1, DE3742930 C1, DE3602665 A1, DE3602665 A1, DE360266, DE19540885 A1, CN200987610 Y, CN101641039 A,																																																																																																																							
Forward Citations:	WO18211956, US9572454, US9320382, US2014226960, US10080459, US10034570,																																																																																																																							
Abstract:																																																																																																																								

A beverage preparation machine configured to dispense a beverage through an outlet nozzle assembly, the machine comprising: an outlet nozzle assembly having provided therethrough a first outlet and a second outlet; and one or more conduits arranged to deliver selectably fluid to the first outlet or the second outlet.



21) Family number: 56827659 (US2015335193A)

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Title: DEVICE FOR PREPARING A BEVERAGE BY CENTRIFUGATION
Priority: EP20120195801 20121206 EP20130799599 20131206 WO2013EP75741 20131206
Family:

Publication number	Publication date	Application number	Application date
AU2013369540 AA	20140703	AU20130369540	20131206
AU2013369540 BB	20180705	AU20130369540	20131206
BR112015013132 A2	20170711	BR20151113132	20131206
CA2893521 AA	20150602	CA20132893521	20131206
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CN104968243 B	20180102	CN201380072123	20131206
CN104968243 B9	20180216	CN201380072123	20131206
DE602013012547 D1	20161117	DE201360012547T	20131206
EP2928345 A1	20151014	EP20130799599	20131206
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RU2631840 C2	20170926	RU20150126863	20131206
TR201616437 T4	20161221	TR20160016437T	20131206
US2015335193 AA	20151126	US20130650528	20131206
US9775463 BB	20171003	US20130650528	20131206
WO14102048 A1	20140703	WO2013EP75741	20131206

Probable Assignee: NESTEC SA
Assignee(s): NESTEC SA ; NESTEC SA ; NESTEC S A
Assignee(s): PERENTES ALEXANDRE ; STRUZKA ZBYNEK ; DES PRODUITS NESTLE SA SOC ; ETTER STEFAN DECEASED ; JARISCH CHRISTIAN ; NESTEC S A
Inventor(s): PERENTES ALEXANDRE ; STRUZKA ZBYNEK ; JARISCH CHRISTIAN ; ETTER STEFAN ; CHRISTIAN JARISCH ; ZBYNEK STRUZKA ; ALEXANDRE PERENTES ; ETTER STEFAN ; PERANTE ALEKSANDR ; ZHARISH KRISTIAN ; STRUZHKA ZBINEK ; STEFAN ETTER FALECIDO
Inventor(s): BORNE PATRICE ; STEFAN ETTER ; ETTER STEFAN DECEASED
Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; MITSCHERLICH PATENT U RECHTSANWAELTE PARTMBB; BORNE PATRICE DANIEL; ISERN JORGE; OOO SOYUZPATENT; PINAR ARIKAN; DUNLAP CODDING PC; BORNE PATRICE
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 NZ 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

International class (IPC 8-9): A23F5/26 A47J31/06 A47J31/22 (Advanced/Invention)

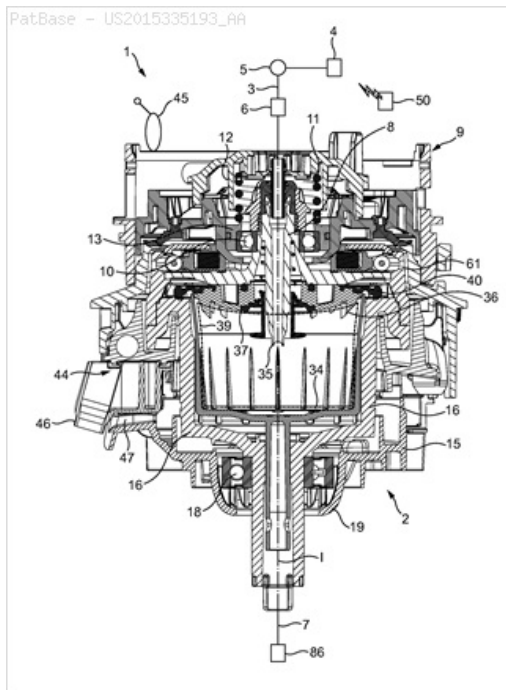
CPC: A23F5/26 A47J31/22
US class: 426/433 99/302C
JP class F-Term: 4B104 4B104/AA20 4B104/BA35 4B104/EA40
JP class F-Index: A47J31/06/323 A47J31/22

[Classification Explorer](#)

Cited documents: WO12007293 A1, WO12007293 A1, WO10026045 A1, WO08148834 A1, WO08148834 A1, WO08148650 A1, WO08148650, WO08148646 A1, WO08148646 A1, WO08148601 A1, WO08148601 A1, WO06112691 A1, WO06112691 A1, US9226611 BB, US8919242 BB, US5566605 A, US5566605 A, US4962693 A, US4700621 A, US4700621 A, US4204964 A, US4074621 A, US2013206014 AA, US2011293805 AA, US2011244099 AA, US2011217421 AA, US2010178404 AA, US2010173056 AA, US2003052206 AA, US2003052206 AA, JP2012511336 T2, JP2012511336, JP2012501198 T2, JP2012501198, JP2011512923 T2, JP2011512923, EP2119383 A1, EP12194801, EP0651963 A1, CN102245066 A, CN101959445 A, CN101686771 A, CN101181135 A, CHWO2012007293,

Abstract:

The invention relates to a device for preparing a beverage from a beverage ingredient contained in a receptacle (17) by driving the receptacle (17) in centrifugation comprising a holding part (16) arranged for holding the receptacle (17) in a position enabling it to be rotated along a longitudinal axis of rotation (I), a liquid interfacing part (8) arranged for engaging against the receptacle (17) and for supplying water in the receptacle (17) and extracting the beverage. The holding part (16) and the liquid interfacing part (8) are connected together by connection means in such a manner that these parts (8, 16) rotate together with the receptacle (17) during centrifugation. The connection means comprises at least a first engaging surface (48) of one of the holding part (16) or liquid interfacing part (8) and a second engaging surface (23) of a locking means (20) connected to the other one of the holding part (16) or the liquid interfacing part (8) which are adapted to be engaged in contact together at least during rotation of the device in a manner preventing the holding part (16) and the liquid interfacing part (8) from moving away from each other, at least in the axial direction of rotation (I). The locking means (20) of the connection means is arranged to be moveably connected to the other one of the parts (8, 16) with at least one degree of freedom at least about a pivoting axis (21).



22) Family number: 44666684 (US2011256273A)

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Title: SYSTEM FOR PREPARING COFFEE BEVERAGE

Priority: NL20082001992 20080917 NL20092002721 20090406 AU20090292722 20090917
JP20110527761 20090917 EP20090788323 20090917 JP20110527761T 20090917
CN200980145805 20090917 WO2009NL50557 20090917 NZ20090591851 20090917
JP20140096064 20090917 US20110049777 20110316 RU20140145356 20141111
US20150659901 20150317 AU20160247046 20161018

Family:

Publication number	Publication date	Application number	Application date
AU2009292722 AA	20100325	AU20090292722	20090917
AU2009292722 BB	20160728	AU20090292722	20090917
AU2009292722 BH	20170119	AU20090292722	20090917
AU2016247046 AA	20161103	AU20160247046	20161018
AU2016247046 BB	20180405	AU20160247046	20161018
BRPI0918714 A2	20151201	BR2009PI18714	20090917
BRPI0918714 B1	20190910	BR2009PI18714	20090917
CA2738727 AA	20110316	CA20092738727	20090917
CA2738727 C	20180102	CA20092738727	20090917
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NZ616551 A	20150925	NZ20090616551	20090917
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RU2014145356 A	20160527	RU20140145356	20141111
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RU2538539 C2	20150110	RU20110115013	20090917
TR201503041 T4	20150821	TR20150003041T	20090917
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US2016007796 AA	20160114	US20150659901	20150317
US9011955 BB	20150421	US20110049777	20110316
US10413114 BB	20190917	US20150659901	20150317
WO10033023 A2	20100325	WO2009NL50557	20090917
WO10033023 A3	20100617	WO2009NL50557	20090917

Probable Assignee: SARA LEE DE NV

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Assignee(s): DOUWE EGBERTS BV KONINKLLVLEUTENSEVAART 353532 ADUTRECHTNL ; SARA LEE DE NVKEULSEKADE 143NL-3532 AAUTRECHTNL ; SARA LEE DE BVKEULSEKADE 143NL-3532 AAUTRECHTNL ; KONINKLIJKE DOUWE EGBERTS BV

Inventor(s):(std): VAN CAMP PHILIPPE JACQUES ; BROUWER GUSTAAF FRANS ; VAN OS IVO ; DE GRAAF GERBRAND KRISTIAAN ; IVO VAN OS ; GUSTAAF FRANS BROUWER ; GERBRAND KRISTIAAN DE GRAAF ; PHILIPPE JACQUES VAN CAMP ; GRAAF GERBRAND KRISTIAAN DE ; OS IVO VAN ; CAMP PHILIPPE JACQUES VAN ; DE GRAAFF GERBRAND KRISTIAAN ; FRANS BROUWER GUSTAAF ; KRISTIAAN DE GRAAF GERBRAND ; IVO OS VAN ; JACQUES CAMP PHILIPPE VAN ; DE GRAF GERBRAND KRISTIAN ; BRAUVER GUSTAF FRANS ; VAN KAMP FILIPP ZHAK ; GRAAFF GERBRAND KRISTIAAN DE ; GERBRAND KRISTIAAN DE GRAAFF

Inventor(s): VAN CAMP PHILIPPE JACQUESNL ; DE GRAAFF GERBRAND KRISTIAANNL ; BROUWER GUSTAAF FRANSNL ; VAN OS IVONL

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO; JANSEN CORNELIS MARINUS; DURAN LUIS ALFONSO; PATENT BODY CORPORATE TAKEWA INT PATENT OFFICE; HANDE MUMCUOGLU; FOLEY AND LARDNER LLP; HATZMANN M 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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): A23F5/08 A23F5/26 A47J31/00 A47J31/06 A47J31/34 A47J31/36 A47J31/40 A47J31/42 A47J31/44 A47J42/38 A47J42/40 A47J42/50 B02C19/00 B65D85/00 G01F11/24 G01F11/46 G01F15/00 (Advanced/Invention); A47J31/06 (Advanced/Non-invention); A47J31/42 (Core/Invention)

International class (IPC 1-7): A47J31/42

CPC: A47J31/42 A47J42/50 G01F11/24 G01F11/46 A47J31/404 A47J31/4403 A47J42/38 A47J31/0663 A47J31/00 A47J31/44

European class: A47J31/42 A47J42/50 G01F11/24 G01F11/46

US class: 222/1 222/1S 241/101.2 241/101.200S 241/24.26 241/34 241/36 426/106 426/106S 426/112 426/112P 426/119 426/119S 426/433 426/433S 426/518 426/594 426/594S 99/280 99/285 99/286 99/286S 99/323.3

JP class F-Term: 4B104 4B104/AA12 4B104/AA19 4B104/AA20 4B104/AA25 4B104/BA02 4B104/BA12 4B104/BA35 4B104/EA30 4B104/EA40 4B104/AA16 4B104/BA04 4B104/BA05 4B104/BA66 4B104/CA19 4B104/DA02 4B104/DA57 4B104/EA12 4B104/EA15 4B053 4B104/AA30 4B104/BA45 4B104/BA57 4B104/BA75 4B104/CA01 4B104/CA13 4B104/CA14 4B104/CA18 4B104/EA39

JP class F-Index: A47J31/06/310 A47J31/34 A47J31/36/110 A47J31/36/114 A47J31/40 A47J31/40/104 A47J31/42 A47J42/40

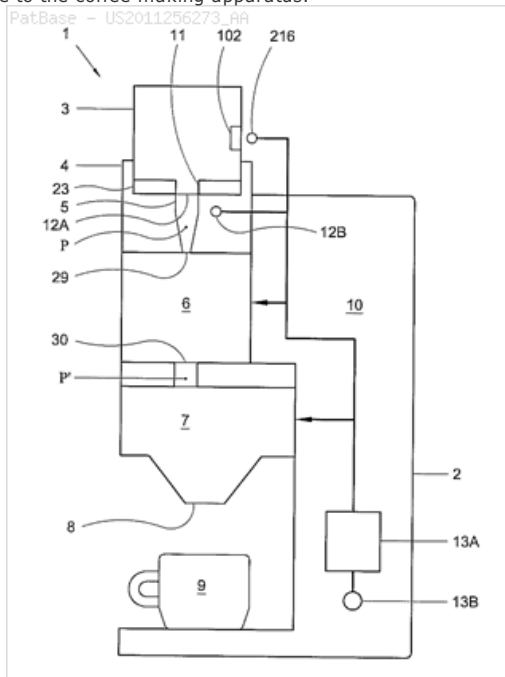
[Classification Explorer](#)

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Forward Citations: WO18195796, WO18187123, WO18167160, WO18069182, WO17178393, WO13048707, US9980610, US9940004, US9930987, US9877495, US9854944, US9783361, US9603480, US9521924, US9521923, US8944354, US2017052051, US2016374486, US2016015215, US2015140184, US2014282198, US2014224910, US2013133520, US2012118165, US10426296, US10368694, US10342386, US10314426, US10314319, US10154675, JP6223344, JP5765113, JP2018527566, JP2014530684, JP2012045378,

Abstract:

A system for preparing a coffee beverage, provided with a coffee making apparatus comprising a grinder for grinding coffee beans to obtain ground coffee, a coffee beverage preparation device arranged for, with supply of water to the ground coffee, preparing the coffee beverage, and a coffee outlet for dispensing the coffee beverage, a separate coffee bean package with an inner space which at least before use is filled with the coffee beans, wherein the coffee bean package before use is closed off in itself such that the exposure of the coffee beans to ambient air is prevented, a coffee bean inlet for supply of coffee beans from the coffee bean package to the grinder, and a connecting device for connecting the coffee bean package to the coffee making apparatus.



23) Family number: 49013692 (US2012266755A)

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Title: CARTRIDGE EXTRACTION DEVICE

Priority: EP20090177592 20091201 EP20100788051 20101201 WO2010EP68580 20101201
US20120513109 20120710 US20140464504 20140820

Family:

Publication number	Publication date	Application number	Application date
AU2010326758 AA	20110609	AU20100326758	20101201
AU2010326758 BB	20140918	AU20100326758	20101201
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Probable Assignee: NESTEC SA

Assignee(s):(std): BAUDET PATRICK ; JACCARD ALAIN ; LARZUL DAVID ; NESTEC SA ; RITHENER BLAISE ; NESTEK SA ; NESTEK S A

Assignee(s): NESTEC S A ; DES PRODUITS NESTLE SA SOC

Inventor(s):(std): BAUDET PATRICK ; RITHENER BLAISE ; LARZUL DAVID ; JACCARD ALAIN ; PATRICK BAUDET ; DAVID LARZUL ; ALAIN JACCARD ; BLAISE RITHENER ; ZHAKKAR ALEN ; RITNER BLEHZ ; BODEH PATRIK

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; MITSCHERLICH PATENT U RECHTSANWAELTE PARTMBB; SCHNYDER FRANK SIMON; ISERN JORGE; ZHONGZI IP; K AND L GATES LLP; SCHNYDER FRANK

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

International class (IPC 8-9): A23L2/52 A47J A47J31/00 A47J31/36 A47J31/40 A47J31/44 A47J31/46 (Advanced/Invention); A47J (Subclass/Invention)

CPC: A23L2/52 A47J31/46 A47J31/3633 A47J31/407

European class: A47J31/36A4D A47J31/46

US class: 426/425 99/279 99/290 99/295 99/299 99/300 99/302R

JP class F-Term: 4B104 4B104/AA19 4B104/AA20 4B104/BA20 4B104/BA21 4B104/BA35 4B104/BA55 4B104/DA10 4B104/DA11 4B104/DA29 4B104/DA44 4B104/DA45 4B104/EA11

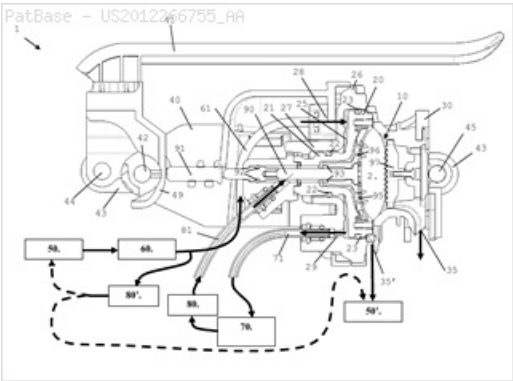
JP class F-Index: A47J31/36 A47J31/36/124 A47J31/40/107 A47J31/46

[Classification Explorer](#)

Cited documents: WO09130099 A1, WO09074557 A1, WO09074550 A2, WO09043630 A2, WO08116818 A1, WO08037642 A2, WO07141202 A1, WO07135136 A1, WO06066626 A1, WO06033049 A1, WO06023309 A2, WO06005756 A1, WO06005736 A2, WO05115206 A1, WO05072574 A1, WO05016093 A1, WO05004683 A1, WO05002405 A2, WO0049926 A1, US8973488 BB, US8807018 BB, US8367136 BB, US8210098 BB, US8147887 BB, US7464636 BB, US7131369 BB, US6966251 BB, US6904840 BA, US6763759 BB, US6510783 BA, US6405637 BA, US6142063 A, US5878654 A, US5794519 A, US5531152 A, US5242702 A, US4793245 A, US4760774 A, US3260190 A, US2968560 A, US2009136639 AA, US2008050480 AA, US2006196363 AA, US2006107841 AA, US2006102008 AA, US2006090653 AA, US2005106288 AA, RU2331348, JP61164528 A2, JP61164528, JP2004534562 T2, JP2004534562, FR2424010 A1, EP1912542 A1, EP1893064 A1, EP1867260 A1, EP1859714 A1, EP1859713 A1, EP1811881 A2, EP1776026 A1, EP1774878 A1, EP1767129 A1, EP1764014 A1, EP1721553 A1, EP1674007, EP1669011 A1, EP1659547 A1, EP1646305 A1, EP1635680 A2, EP1566126 A1, EP1545278 A1, EP1480540 A1, EP1353591 A1, EP1247480 A1, EP1219217 A1, EP0917360 A2, EP0917218 A2, EP0862882 A1, EP0730425 A1, EP0676162 A1, CN1487804 A, CN101415356 A,

Forward Citations: WO19121594, WO18169427, WO18169426, WO18069268, WO18069266, WO16083488, WO16083485, WO16059563, WO13163436, WO13127907, US9913558, US9901208, US9700171, US9688465, US9492028, US9428329, US9428328, US2016242591, US2016166105, US2015289706, US2015140184, US2015125586, US2014348994, US10351277, US10336531, US10314319, US10307011, US10154752, US10130211, RU2620957, EP3223668, EP3206543, EP3200661, EP3192406, EP3141164, EP3141164, EP2819559, EP2633789, CN107223031, CN104168803, CN104168803, CN104135901, CN104135901, AU2014288950, AU2013225017,

Abstract:
A device (1) has: a cartridge seat (10) arranged to receive an ingredient cartridge (2) for extraction; a beverage outlet (35) connected to this cartridge seat for dispensing beverage during extraction; and a liquid injection arrangement (50, 60, 61, 70, 80, 81) comprising a pump (60) for pressurising and circulating liquid from a source (50) via the cartridge seat into the beverage outlet. The liquid injection arrangement further comprises a valve (80') between the pump and the cartridge seat. The liquid injection arrangement is configured to release via the valve (80') pressure from this pressurised liquid in the injection arrangement and maintain liquid in the injection arrangement from the pump (60) to the cartridge seat (10) after the pump is stopped, so as to inhibit dripping from the beverage outlet (35).



24) Family number: 51433765 (US2012183659A) © PatBase

Title: APPARATUS FOR BREWING A BEVERAGE AND RELATED METHOD

Priority: US20100427762P 201011228 EP20110808122 20111227 US20110337685 20111227
WO201110567420 20111227 US201110427762P 20111228 US20140566565 20141210

Family:	Publication number	Publication date	Application number	Application date
	AU2011352221 AA	20120705	AU20110352221	20111227
	AU2011352221 BB	20160908	AU20110352221	20111227
	BR112013016221 A2	20170620	BR20131116221	20111227
	CA2821774 AA	20130613	CA20112821774	20111227
	CA2821774 C	20170214	CA20112821774	20111227
	CN103313634 A	20130918	CN201180063230	20111227

CN103313634 B	20161026	CN201180063230	20111227
DE602011029437 D1	20160929	DE201160029437T	20111227
EP2658419 A2	20131106	EP20110808122	20111227
EP2658419 B1	20160817	EP20110808122	20111227
ES2589807 T3	20161116	ES20110808122T	20111227
IN05603CN2013 A	20140815	IN2013CN05603	20130715
JP2014501164 T2	20140120	JP20130547622T	20111227
KR20140005217 A	20140114	KR20137019656	20111227
MX2013007523 A1	20130916	MX20130007523	20111227
MX341085 B	20160808	MX20130007523	20111227
RU2013135248 A	20150210	RU20130135248	20111227
RU2561024 C2	20150820	RU20130135248	20111227
SG191238 A1	20130731	SG20130047113	20111227
TR201616359 T4	20161221	TR20160016359T	20111227
TW201233360 A	20120816	TW201110148806	20111227
TWI592123 B	20170721	TW201110148806	20111227
US2012183659 AA	20120719	US20110337685	20111227
US2015093483 AA	20150402	US20140566565	20141210
US8910563 BB	20141216	US20110337685	20111227
US9320386 BB	20160426	US20140566565	20141210
WO12092292 A2	20120705	WO2011US67420	20111227
WO12092292 A3	20130314	WO2011US67420	20111227

Probable Assignee: STARBUCKS CORP

Assignee(s):(std): HULETT RANDY ; KOLLER IZAAK ; SHAY BRIAN ; STARBAKS CORP DI BI EHJ STARBAKS KOFE KOMPANI ; STARBUCKS CORP D B A STARBUCKS COFFEE CO ; STARBUCKS CORP D ; STARBUCKS CORP ; STARBUCKS CORP DBA STARBUCKS COFFEE CO

Assignee(s): STARBUCKS D B A STARBUCKS COFFEE CO SEATTLE CORP ; STARBUCKS D CORP ; STARBUCKS D B A STARBUCKS COFFEE CO CORP ; STARBAKS KORPOREJSHN DI BI EHJ STARBAKS KOFE KOMPANI

Inventor(s):(std): IZAAK KOLLER ; BRIAN SHAY ; RANDY HULETT ; SHEJ BRAJAN ; KH JULETT REHNDI ; MELANIE SEELIG ; SHAY BRIAN ; HULETT RANDY ; KOLLER IZAAK

Inventor(s): KOLLER IZAAK SEATTLE ; SHAY BRIAN SEATTLE ; HULETT RANDY SEATTLE

Agent(s): KING AND WOOD MALLESONS ; MINTER ELLISON ; GOWLING LAFLEUR HENDERSON LLP ; GOWLING WLG CANADA LLP ; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB ; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER ; MILTENYI PETER ; FULYA SUEMERALP ; KNOBBE MARTENS OLSON AND BEAR LLP ; SEELIG MELANIE 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 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 ZA ZM ZW

International class (IPC 8-9): A23F5/26 A47J31/02 A47J31/06 A47J31/44 A47J31/46 (Advanced/Invention)

CPC: A47J31/0631 A47J31/4475 A23F5/262 A47J31/46

European class: A23F5/26B A47J31/06H A47J31/44A6

US class: 1/1 426/425 426/431 426/431P 99/280 99/280S 99/300 99/300S

JP class F-Term: 4B104 4B104/BA16 4B104/BA36 4B104/BA43 4B104/BA57 4B104/BA63 4B104/BA66 4B104/BA77 4B104/CA18

JP class F-Index: A47J31/06/160 A47J31/10 A47J31/44/Z A47J31/44/190

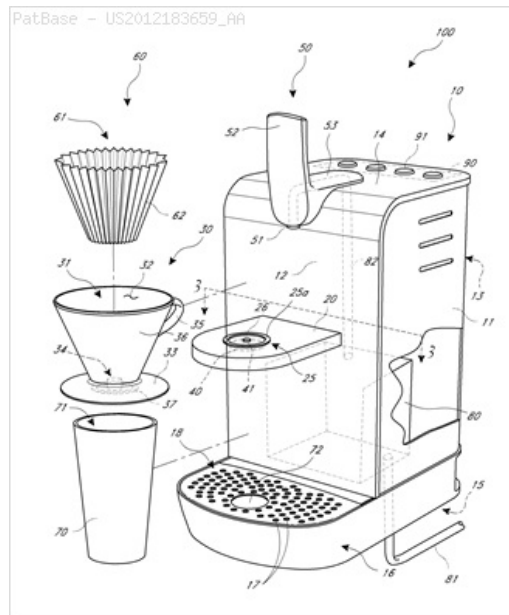
[Classification Explorer](#)

Cited documents: WO10091872 A2, WO07063845 A1, WO0057761 A1, WO0057761 A1, US7673555 BB, US7673555, US6729226 BB, US6550370 BB, US6098525 A, US5865094 A, US5865094 A, US5664480 A, US5113751 A, US4662271 A, US3971305 A, US2009101233 AA, US2007068393, US2004025705 AA, US1876474 A, US1473898 A, JP9066997 A2, JP2009511099 T2, JP2009165830 A2, JP2006525067 T2, JP2006142015 A2, JP2005199071 A2, JP2005137543 A2, JP2005137543 A2, JP2002219054 A2, JP2001137119 A2, JP2001120435 A2, JP2001120434 A2, JP2001037642 A2, JP2001037641 A2, JP2000308579 A2, JP2000271008 A2, FR2608408 A1, FR2608408 A1, EP2144545 A1, EP1874167 A2, EP0555912, DE4122547 A1, DE4122547 A1, DE2751310 A1, CN101404917 A, CN101404916 A, CN101026979 A,

Forward Citations: WO17166938, WO15123612, USD780510, US9930989, US9808114, US9795246, US9439531, US9345359, US9307860, US2017311751, US2017188747, US2016324365, US2016235240, US2016174755, US2014305312, US2014272047, US2013019756, US10390654, US10321783, US10226147, US10143331, US10117542, US10064517, US10045654, US10039413, US10004354, TWI513438, KR101766124, JP2016539766, JP2016537071, JP2016520347, EP3345516, DE102016117116, DE102015016722, DE102015016722, CN107041682, CN106955020, CN105768884,

Abstract:

Disclosed is an apparatus for brewing a beverage, such as coffee, as well as associated methods for brewing a beverage. Apparatuses and methods are disclosed to reduce labor involved in pour-over brewing techniques, while providing greater consistency in the results. Manual and/or automatic movements are provided to a filter (e.g., rotation) and/or a nozzle dispensing liquid over the filter. Water dosage and timing therefore can be automated to the filter. The nozzle can be positioned off-center with respect to the filter to ensure wetting thereof. The nozzle can be made movable for constrained changes to the path of liquid flow relative to the rotating filter.



25) Family number: 22998774 (US3354813A)

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Title: DISPENSING APPARATUS
Priority: US19650496422 19651015 US19650496491 19651015
Family:

Publication number	Publication date	Application number	Application date
GB1109749 A	19680410	GB19660045997	19661014
US3354813 A	19671128	US19650496491	19651015
US3369479 A	19680220	US19650496422	19651015

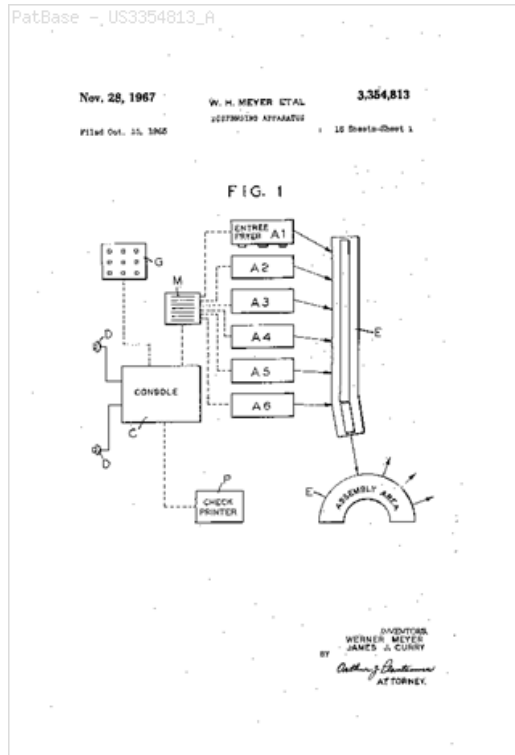
Probable Assignee: AMERICAN MACH AND FOUNDRY
Assignee(s):(std): AMERICAN MACH AND FOUNDRY
Assignee(s): AMERICAN MACHINE AND FOUNDRY CO ; AMERICAN MACHINE AND FOUNDRY COMPANY
Inventor(s):(std): CURRY JAMES J ; DAVIDSON OPPENHEIMER EDGAR ; HERMAN MEYER WERNER ; UDALL HUMFREY N ; OPPENHEIMER EDGAR DAVIDSON
Inventor(s): MEYER WERNER HERMAN
International class (IPC 8-9): A47J37/00 A47J37/04 A47J37/12 G06Q10/00 (Advanced/Invention); A47J37/04 (Core/Invention)
International class (IPC 1-7): A47J37/04 G07F11/46
CPC: A47J37/00 A47J37/1214 G06Q10/087 A47J37/044
European class: A47J37/00 A47J37/04D A47J37/12B G06F17/60C4 G06Q10/087 G06Q10/08E
US class: 198/403 198/412 221/150HC 221/150R 221/211 221/36 221/6 414/421 99/325 99/336 99/357 99/407 99/443C 99/443R 993/250

[Classification Explorer](#)

Cited documents: US3275189 A, US3214058 A, US3179231 A, US3008281 A, US2954900 A, US2835398 A, US2715973 A, US2714358 A, US2649058 A, US2616550 A, US2576369 A, US2484222 A,

Forward Citations: US9560853, US8920744, US8770433, US8034390, US7981455, US7891289, US7824721, US7703636, US7441388, US7356980, US7337594, US7303776, US6960157, US6871676, US6869633, US5400838, US5287948, US5275092, US5109956, US4979864, US4417839, US4125205, US3712023, US3570711, US3448677, US2016174572, US2011281004, US2008193617, US2008173649, US2008166461, US2008063769, US2008063767, US2008061072, US2008060715, US2005267811, US2005061160, US2004020555, US2004011006, US2003205288, US2003205028,

Abstract:
 ABSTRACT OF THE DISCLOSURE A container dispensing unit including a frame, a storage chute, a pair of stationary support ledges, a reciprocating blade, a vacuum cup, means to reciprocate said blade, and means to provide vacuum to said vacuum cup. This invention resides in improved machinery for automatically dispensing and delivering a variety of food products such as chicken, shrimp, french fried potatoes, onion rings, etc. to a cooking machine. In a more specific



26) Family number: 52994793 (US2013032611A)

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Title: POWDER DISPENSING APPARATUS

Priority: US20110521929 20110803 WO2011US46436 20110803 US20120521929 20120712
US20130832552 20130315 US20180054557 20180803

Family:	Publication number	Publication date	Application number	Application date
	AU2011374309 AA	20130207	AU20110374309	20110803
	AU2011374309 AB	20140130	AU20110374309	20110803
	AU2011374309 AH	20140213	AU20110374309	20110803
	AU2011374309 BB	20150917	AU20110374309	20110803
	CA2842603 AA	20140121	CA20112842603	20110803
	CA2842603 C	20150505	CA20112842603	20110803
	CN103874441 A	20140618	CN201180072756	20110803
	CN103874441 B	20160427	CN201180072756	20110803
	DE112011105483 B4	20190718	DE201111105483T	20110803
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	EP2739190 A1	20140611	EP20110870208	20110803
	EP2739190 A4	20150401	EP20110870208	20110803
	ES2473790 AB	20140707	ES20140090009	20110803
	ES2473790 BB	20150715	ES20140090009	20110803
	ES2473790 R1	20140729	ES20140090009	20110803
	GB201401488 A0	20140312	GB20140001488	20110803
	GB2506567 A1	20140402	GB20140001488	20110803
	GB2506567 B2	20180718	GB20140001488	20110803
	US2013032611 AA	20130207	US20110521929	20110803
	US2013200101 AA	20130808	US20130832552	20130315
	US2018339897 AA	20181129	US20180054557	20180803
	US8584901 BB	20131119	US20110521929	20110803
	US10138114 BB	20181127	US20130832552	20130315
	WO13019227 A1	20130207	WO2011US46436	20110803
	WO13019227 A8	20140306	WO2011US46436	20110803

Probable Assignee: TAYLORED CONCEPTS LLC

Assignee(s):(std): DOOLEY CHRISTOPHER ; HARTDESIGN LTD ; HARTDESIGNI LTD ; HARTELIUS MARK E ; PRODUCT SPRING LLC ; TAYLOR LOREN ; TAYLORED CONCEPTS LLC

Inventor(s):(std): TAYLOR LOREN T ; DOOLEY CHRISTOPHER P ; MARK E HARTELIUS ; LOREN TAYLOR ; CHRISTOPHER DOOLEY ; DOOLEY CHRISTOPHER ; HARTELIUS MARK E ; TAYLOR LOREN

Agent(s): COTTERS PATENT AND TRADE MARK ATTORNEYS; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; LITTON RORY FRANCIS; ARIAS JUAN; MICHAEL; CRILLY ESQUIRE MICHAEL; CRILLY MICHAEL 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 QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ
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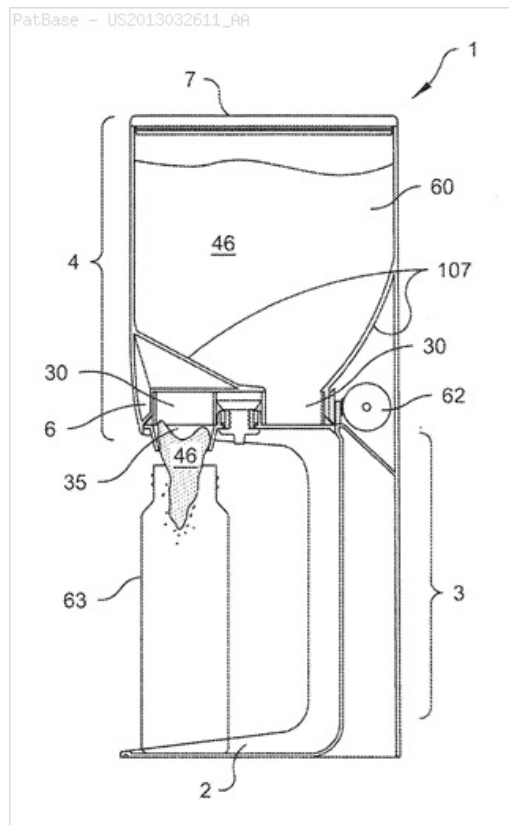
International class (IPC 8-9): A47J31/00 A47J31/40 A47J43/27 B65B3/04 B65D47/28 B65D83/06 B65D88/68 B67D7/74 B67D7/78 B67D7/80 F24H1/18 G01F11/10 G01F11/20 (Advanced/Invention)
CPC: B67D7/78 A47J31/401 A47J31/404 B65D47/286 B65D83/06 B65D88/68
US class: 1/1 222/129.4 222/144 222/145.4 222/145.5 222/146.5 222/148 222/239 222/242 222/367 222/370 222/63

[Classification Explorer](#)

Cited documents: WO10092459 A1, WO06036835 A2, US8820218 BB, US8444012 BB, US7316249 BB, US7104184 BB, US6829431 BA, US6766106 BB, US6711990 BA, US6412527 BA, US6173177 BA, US6173117 BA, US6173117 B1, US5797313 A, US5671325 A, US5626260 A, US5570861 A, US5570816 A, US5409137 A, US5397031 A, US4572060 A, US4378078 A, US4139125 A, US3884389 A, US3568887 A, US3567076 A, US3400861 A, US3352460 A, US3266670 A, US2857083 A, US2814317 A, US2010282781 AA, US2010028278 AA, US2009001101 AA, US2008245239 AA, US2006278093 AA, US2006157463 AA, US2006150821 AA, US2005238341 AA, US2005230343 AA, US2005067132 AA, US2004194631 AA, TW201006759 A, KR20090022382 A, JP9012066 A2, JP9012056 A2, JP4195293 A2, JP2007186236 A2, GB2447991 A1, EP2085002 A1, DE60221715 T2, DE60004402 T2, DE29800175 U, DE202006008409 U, DE102005021838 A1
CN101896096 A,

Forward Citations: WO16120138, WO16120114, WO16105586, WO15027343, USD861751, USD805315, USD722807, US9829295, US9598187, US9591943, US9486103, US9469463, US9456612, US8910672, US2016207692, US2016096638, US2015282659, US2015181894, US2014131384, US2014007978, US2013323371, US10279985, EP3075294, EP2939577, CN107205575, CN106998946, CN105595845, CN103989406,

Abstract:
A powder dispensing apparatus for dispensing a powder either with or without a liquid is presented. The apparatus includes a base, a dispenser, and a tower. The base is adapted for receiving a container. The dispenser includes a rotatable carriage contacting a support element with an opening. The carriage includes a plurality of compartments horizontally disposed above an optional funnel and rotatable about a central axis. A hopper is disposed above the carriage and communicates with less than all compartments. Each compartment is capable of separately dispensing a powder from the hopper through the opening into the funnel and thereafter into the container resting on the base. The tower is disposed between and attached at opposing ends to the base and the dispenser. The apparatus is useful, for example, in preparing baby formula and other food for infants, as well as in preparing food and drink for children and adults.



27) Family number: 55889796 (US8663724B)

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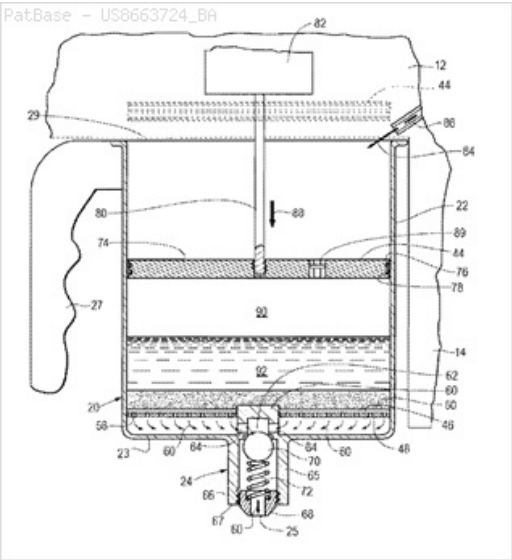
Title: AUTOMATED BEVERAGE BREWING METHOD
Priority: US20100310119P 20100303 US20110037081 20110228

Family:	Publication number	Publication date	Application number	Application date
	US8663724 BA	20140304	US20110037081	20110228

Probable Assignee: FOOD EQUIP TECHNOLOGIES CO INC
Assignee(s):(std): BANASIK GREGORY ; FOOD EQUIP TECHNOLOGIES CO INC
Assignee(s): FOOD EQUIPMENT TECHNOLOGIES CO INC

Inventor(s):(std): BANASIK GREGORY
Agent(s): JAMES W; POTTHAST AND ASSOCIATES
International class (IPC 8-9): A47J31/32 (Advanced/Invention)
CPC: A47J31/02 A47J31/0663 A47J31/10 A47J31/0631
US class: 426/431 426/433
[Classification Explorer](#)
Cited documents: US7621212 BB, US7040218 BA, US6095031 A, US3354811 A, US2010173054 AA, US2009136639 AA, US2007245902 AA, US2007227363 AA, US2006037481 AA, EP0073739 A1,
Forward Citations: WO15016792, US9351601, US2014261003, US2014242226, US2014170280, US10392238, KR101931534, DE102013225127, AT515309, AT515309,

Abstract:
An electrical, automatic hot beverage brewer (10) and method of brewing in which a removable brew chamber (20) has a drain hole (25) in the bottom fitted with a normally closed, pressure responsive brew chamber drain valve assembly (24) maintained in a normally closed position except when pressure against the drain valve (24) exceeds a preselected minimum pressure limit that is greater than the fluidic pressure applied by virtue of head pressure of a full load of hot water and a piston (74) is moved within the brew chamber to control the opening and closing of the drain valve (24) When the piston (74) moves downwardly toward the drain hole the air pressure of a pocket of air (90) above the beverage (92) in the brew chamber (20) is increased to open at the end of a seeping period when it is desired to rapidly expel freshly brewed beverage out the brew drain valve at a relatively rapid rate depending upon the total of the hydraulic pressure and the added pressure from the air pressure source to avoid the need to wait for the end of a drip period. The drain valve (24) automatically closes after the piston (74) is removed from the brew chamber (20) to enable removal of the brew chamber (20) from a brewer housing (12) without risks of hot beverage leaking out of the brew chamber (20).



28) Family number: 32506826 (US2005279216A)

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Title: COFFEE MAKER SUITABLE FOR AIRCRAFT USE
Priority: US20040869496 20040616 WO2005US20650 20050609
Family:

Publication number	Publication date	Application number	Application date
DE602005021491 D1	20100708	DE200560021491T	20050609
EP1768529 A1	20070404	EP20050758405	20050609
EP1768529 B1	20100526	EP20050758405	20050609
JP2008503251 T2	20080207	JP20070516587T	20050609
US2005279216 AA	20051222	US20040869496	20040616
US7891287 BB	20110222	US20040869496	20040616
WO6009644 A1	20060126	WO2005US20650	20050609

Probable Assignee: MAG AEROSPACE IND INC
Assignee(s):(std): MAG AEROSPACE IND INC ; MILLER PAUL E ; MILLER PAUL EUGENE ; MONOGRAM SYSTEMS
Assignee(s): MAG AEROSPACE INDUSTRIES INC ; MAG AEROSPACE IND
Inventor(s):(std): MILLER PAUL E ; MILLER PAUL EUGENE
Agent(s): VIERING HANS MARTIN; HOGAN AND HARTSON LLP; KILPATRICK TOWNSEND AND STOCKTON LLP; DEAN 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 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
International class (IPC 8-9): A47J31/00 A47J31/10 A47J31/44 A47J31/46 A47J31/56 A47J41/00 (Advanced/Invention); A47J31/00 A47J31/10 A47J31/44 A47J41/00 (Core/Invention)
International class (IPC 1-7): A47J31/00 A47J31/10 A47J41/00

CPC: A47J31/106 A47J41/0016

European class: A47J31/10C A47J41/00C3

US class: 99/279 99/279P 99/282 99/283 99/300 99/302.00R 99/302R

JP class F-Term: 4B004 4B004/AA12 4B004/BA04 4B004/BA12 4B004/BA16 4B004/BA29 4B004/BA32 4B004/BA33 4B004/BA40 4B004/BA42 4B004/CA06 4B004/CA08 4B004/CA12 4B004/CA21 4B004/CA24 4B104 4B104/AA12 4B104/BA16 4B104/BA18 4B104/BA20 4B104/BA36 4B104/BA41 4B104/BA53 4B104/BA66 4B104/BA77 4B104/BA80 4B104/BA82 4B104/BA89 4B104/CA02 4B104/CA06 4B104/CA08 4B104/CA21 4B104/DA23 4B104/DA39 4B104/DA40 4B104/DA41 4B104/DA44 4B104/EA03 4B104/EA18 4B104/EA22

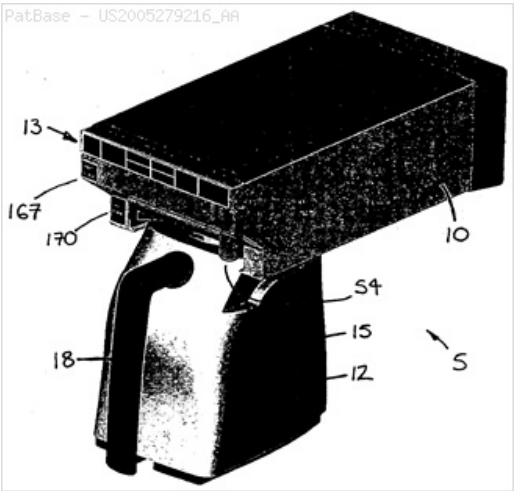
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[Classification Explorer](#)

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Forward Citations: WO14143589, WO13161235, WO12135371, USD773892, US9968219, US9756973, US9603482, US9596957, US9272893, US9173519, US9049959, US8581151, US8522670, US8288690, US7861644, US7858134, US2016242589, US2016000262, US2015104548, US2015004288, US2014076171, US2012231135, US2011100477, US2011067575, US2011061542, US2010230396, US2009151573, US2008148953, US2007272085, US10362897, US10251509, US10143328, KR20140035442, KR101897847, JP2014515282, JP2008194077, JP2008178684, DE102009042939, CN106659327, CN103747712, CN101912229,

Abstract:
A coffee maker assembly particularly suitable for aircraft use delivers hot coffee into a decanter that can be removed from the assembly to serve the coffee to passengers and crew inside an aircraft cabin. The assembly includes an electronically controlled solenoid valve that controls the delivery of water from a reservoir into a coil heater. Electronic circuitry in the system controls the assembly's operation and provides various indications to a user of the system. Various automatic valves, couplings, and other features ensure safe and reliable operation with minimal maintenance.



29) Family number: 49800853 (US2011258058A)

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Title: SYSTEM AND METHOD FOR GENERATING A RESTAURANT ORDER ON A WIRELESS MOBILE PERSONAL COMPUTER

Priority: US20100760534 20100414 US20120725379P 20121112 US20130078405 20131112
US20130078396 20131112 US20150937112 20151110 US20160095133 20160410

Family:

Publication number	Publication date	Application number	Application date
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US2014136366 AA	20140515	US20130078396	20131112
US2016063585 AA	20160303	US20150937112	20151110
US2016244311 AA	20160825	US20160095133	20160410
US10373223 BB	20190806	US20150937112	20151110
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WO11130568 A3	20120405	WO2011US32574	20110414
WO14075092 A1	20140515	WO2013US69734	20131112
WO17180518 A1	20171019	WO2017US26820	20170410

Probable Assignee: RESTAURANT TECHNOLOGY INC

Assignee(s):(std): RESTAURANT TECHNOLOGY ; LUNA ELEANOR ELIZABETH ; KO HYUN JIN ; PRICE CARLEY RACHEL ; POLLARD JEFF ; ROBERTS MELODY ; PRICE PAUL ; WETTERSTEN JON VERNON ; RESTAURANT TECH INC ; CARROLL ROGER D ; FERBER AARON RANDALL ; FOX KATHY ; JONES MARK ALEXANDER ; JONSSON STINA MARIA

Assignee(s): RESTAURANT TECHNOLOGY INC

Inventor(s):(std): LUNA ELEANOR ELIZABETH ; JONES MARK ALEXANDER ; PRICE PAUL ; CARROLL ROGER D ; KO HYUN JIN ; JONSSON STINA MARIA ; FERBER AARON RANDALL ; PRICE CARLEY RACHEL ; FOX KATHY ; POLLARD JEFF ; ROBERTS MELODY ; WETTERSTEN JON VERNON ; STERES JEFFREY ; MUHS NATALIE ; WILSON KIM ; CROUSE KYLE ; BHAUMIK VIJAN ; FRIGO ANGELO ; BEEBE MICHAEL ; BURKS MICHAEL ; ERMER LAURA

Agent(s): MURAFF JAMES P; NEAL GERBER AND EISENBERG LLP; MURAFF JAMES P 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 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

International class (IPC 8-9): A47J31/46 B67D1/08 B67D1/10 G06Q20/20 G06Q20/32 G06Q30/00 G06Q30/06 G06Q50/00 G06Q50/12 H04W4/02 (Advanced/Invention)

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European class: G06Q30/06 G06Q50/12

US class: 1/1 222/129.1 705/15 705/15P 705/26.8

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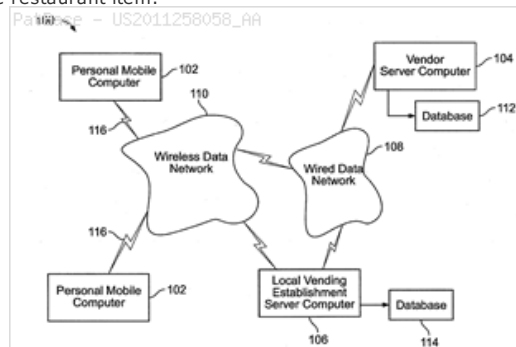
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Abstract:

A wireless mobile personal computer is provided for enabling a customer to generate a restaurant order on the wireless mobile personal computer. The wireless mobile personal computer includes a restaurant order generating application configured to generate restaurant item selecting interface screens for generating the restaurant order comprising at least one restaurant item, to generate a machine-readable representation of the generated restaurant order, a processor for executing the restaurant order generating application, a memory for storing the restaurant order generating application and selectable restaurant items, and a display for displaying the restaurant item selecting interface screens, and the at least one restaurant item.



Title:

Combo grinder and brewer

Priority:

US19950371293 19950111CA19952154842 19950727US19950511133 19950804CA19962168627 19960201

Family:	Publication number	Publication date	Application number	Application date
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	CA2154842 C	19990323	CA19952154842	19950727
	CA2168627 AA	19970205	CA19962168627	19960201
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	US5465650 A	19951114	US19950371293	19950111
	US5511465 A	19960430	US19950511133	19950804

Probable Assignee:

BUNN O MATIC CORP

Assignee(s):(std):

BUNN O MATIC CORP

Assignee(s):

FRIEDRICH BRENT R ; KNEPLER JOHN T

Inventor(s):(std):

FRIEDRICH BRENT R ; KNEPLER JOHN T

Inventor(s):

BRENT R FRIEDRICH ; JOHN T KNEPLER

Agent(s):

SMART AND BIGGAR

International class (IPC 8-9):

A47J31/10 A47J31/42 A47J31/46 (Advanced/Invention); A47J31/10 (Core/Invention)

International class (IPC 1-7):

A47J31/10 A47J31/42 A47J42/00

CPC:

A47J31/42 A47J31/46

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US class:

99/286 99/289R 99/290 99/295 99/305

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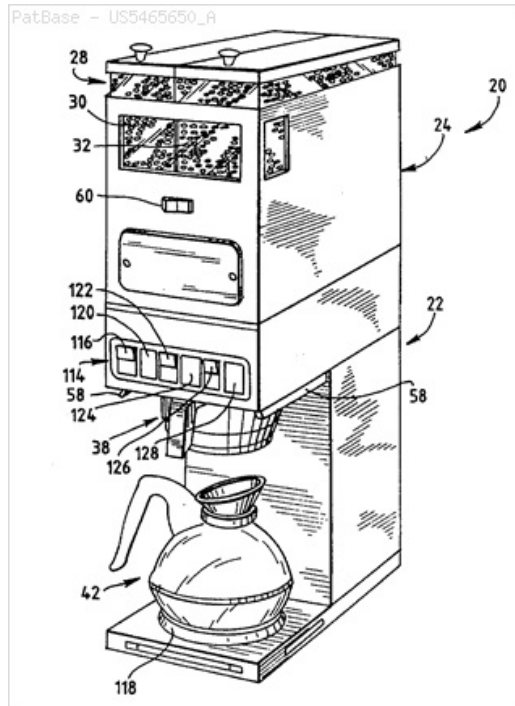
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Forward Citations:

WO08154634, WO0065969, USD824713, USD495197, USD487208, US9510710, US9044119, US8978541, US8881642, US8800899, US8739687, US8511220, US8490902, US8327753, US8151692, US8096229, US8065952, US8047124, US7942094, US7934670, US7533602, US7273005, US7264186, US7252033, US7223427, US7201098, US7024983, US7013795, US6857354, US6827002, US6626085, US6479086, US6465035, US6439106, US6439105, US6389957, US6367370, US6339985, US6238721, US6237811, US6227102, US6155158, US5836169, US5671657, US5549036, US2016143481, US2014144330, US2014057033, US2013087049, US2013025465, US2012160943, US2012017765, US2011198424, US2011185908, US2010229729, US2010206175, US2010199848, US2010037786, US2009188395, US2009173236, US2009031902, US2009031900, US2008168905, US2007063079, US2006222736, US2006016346, US2006007781, US2005279219, US2005193890, US2005120885, US2005076787, US2004163546, US2004123747, US2004060449, US2003167928, US2003129286, EP3023041,

Abstract:

A beverage brewing apparatus which includes a substance dispensing device and a brewing device. The brewing apparatus includes a receptacle for receiving a brewing substance from the substance dispensing device, a movable chute positioned between the substance dispensing device and the receptacle, and a water dispensing system operatively associated with the brewing device and selectively communicating with the receptacle for delivering water to a brewing substance retained therein. Additionally, a drive assembly is provided to operatively displace the water dispensing device relative to the receptacle. When the water dispensing device is positioned in communication with the receptacle, the chute is moved out of communication with the receptacle. When the water dispensing device is removed from communication with the receptacle, the chute is placed in communication with the receptacle. The present invention also includes a seal attached to the water dispensing device to seal the water dispensing device while dispensing water to prevent the escape of moisture from the water dispensing device. The apparatus includes a sensor for detecting when a funnel is not present for brewing a beverage or when the funnel has not been recharged and replaced after brewing a beverage and upon initiating a subsequent beverage brewing cycle.



31) Family number: 48739871 (US2012199007A)

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Title: CARTRIDGE EXTRACTION DEVICE

Priority: EP20090172187 20091005 EP20090173600 20091021 WO2010EP64772 20101005
EP20100761007 20101005 EP20100763677 20101005 WO2010EP64773 20101005

Family:	Publication number	Publication date	Application number	Application date
	AU2010305496 AA	20110414	AU20100305496	20101005
	AU2010305496 BB	20141204	AU20100305496	20101005
	AU2010305497 AA	20110414	AU20100305497	20101005
	BR112012007796 A2	20160830	BR20121107796	20101005
	BR112012007816 A2	20160830	BR20121107816	20101005
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	EP2485628 B1	20150422	EP20100761007	20101005
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	IN02917DN2012 A	20131122	IN2012DN02917	20120404
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	JP2013506475 T2	20130228	JP20120531457T	20101005
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	JP5680088 B2	20150304	JP20120531457T	20101005
	PT2485628 T	20150520	PT20100761007T	20101005
	PT2485629 T	20140121	PT20100763677T	20101005
	RU2012118679 A	20131110	RU20120118679	20101005
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	US2012199007 AA	20120809	US20100500392	20101005
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	US8973488 BB	20150310	US20100500392	20101005
	US9271600 BB	20160301	US20100500393	20101005

WO11042400 A2	20110414	WO2010EP64772	20101005
WO11042400 A3	20110609	WO2010EP64772	20101005
WO11042401 A2	20110414	WO2010EP64773	20101005
WO11042401 A3	20110609	WO2010EP64773	20101005

Probable Assignee: NESTEC SA

Assignee(s):(std): BAUDET PATRICK ; JACCARD ALAIN ; LARZUL DAVID ; RITHENER BLAISE ; NESTEC SA ; NESTEK S A ; NESTEK SA

Assignee(s): NESTEC S A ; DES PRODUITS NESTLE SA SOC

Inventor(s):(std): BAUDET PATRICK ; RITHENER BLAISE ; LARZUL DAVID ; JACCARD ALAIN ; PATRICK BAUDET ; DAVID LARZUL ; ALAIN JACCARD ; BLAISE RITHENER ; BODEH PATRIK ; RITNER BLEHZ ; ZHAKKAR ALEN

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; MITSCHERLICH PATENT U RECHTSANWAELTE PARTMBB; SCHNYDER FRANK SIMON; ISERN JORGE; ZHONGZI IP; K AND L GATES LLP; SCHNYDER FRANK

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

International class (IPC 8-9): A47J A47J31/00 A47J31/06 A47J31/34 A47J31/36 A47J31/40 A47J31/44 A47J31/46 (Advanced/Invention)

CPC: A47J31/3623 A47J31/3695 A47J31/3633

European class: A47J31/36A4D

US class: 1/1 99/281 99/281P 99/295 99/295S 99/302P 99/302R

JP class F-Term: 4B104 4B104/AA19 4B104/AA20 4B104/BA55 4B104/BA63 4B104/BA64 4B104/CA02 4B104/CA18 4B104/CA26 4B104/EA28 4B104/BA35 4B104/EA20 4B104/EA29

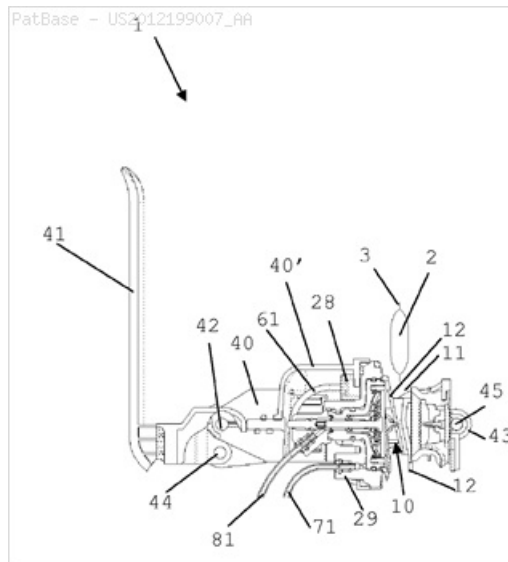
JP class F-Index: A47J31/34 A47J31/36/122 A47J31/36/124 A47J31/40/107 A47J31/44/125 A47J31/46 A47J31/06/A A47J31/36/126 A47J31/44/Z

[Classification Explorer](#)

Cited documents: WO09130099 A1, WO09074550 A2, WO09043630 A2, WO08149297 A1, WO08037642 A2, WO08004116 A1, WO07135136 A1, WO07135135 A1, WO07111884 A2, WO06066626 A1, WO06023309 A2, WO06005756 A1, WO06005736 A2, WO05115206 A1, WO05072574 A1, WO05016093 A1, WO05004683 A1, WO05002405 A2, WO03073897 A1, WO0049926 A1, US8047127 BB, US7444927 BA, US7131369 BB, US6966251 BB, US6904840 BA, US6763759 BB, US6510783 BA, US5755149 A, US5531152 A, US5103716 A, US4760774 A, US3269298 A, US3260190 A, US2010129512 AA, US2009308258 AA, US2009114100 AA, US2009035438 AA, US2007221066 AA, US2006196362 AA, US2006102008 AA, US2005129809 AA, US2005106288 AA, US2004079237 AA, US2001011502 AA, JP9506799 T2, JP9119492 A2, JP814867, JP8014867 A2, JP2010528751 T2, JP2009537270 T2, JP2009531132 T2, JP2009529397 T2, JP2007501031 T2, JP2006143146 A2, JP2004534562 T2, FR2424010 A1, EP2009053368, EP1980183 A2, EP1912542 A1, EP1893064 A1, EP1859714 A1, EP1859713 A1, EP1776026 A1, EP1774878 A1, EP1767129 A1, EP1721553 A1, EP1669011 A1, EP1659547 A1, EP1646305 A1, EP1635680 A2, EP1566126 A1, EP1545278 A1, EP1480540 B1, EP1480540 A1, EP1247480 A1, EP1219217 A1, EP1208782 A1, EP0862882 A1, EP0730425 A1, CN200987586 Y, CN200987586 A, CN1747676 A, CN101453929 A, CN101313823 A, CN101099637 A,

Forward Citations: WO19158542, WO19154527, WO19154526, WO19121865, WO19121594, WO19121593, WO18229102, WO18219989, WO18219988, WO18219985, WO18219984, WO18210899, WO18210897, WO18158179, WO18087030, WO18069268, WO18069266, WO18046400, WO18026269, WO16083488, WO16083485, WO16083484, WO15150916, WO15006443, WO14060370, WO13127907, WO13026856, WO13026845, WO13026844, WO13026843, US9700171, US9688465, US9687108, US9492028, US9480361, US9428329, US9428328, US2017291759, US2015250352, US2015140184, US2014356500, US2014348994, US10398253, US10351277, US10336531, US10314319, US10154752, ITUA20163094, ITRM20110329, EP3403546, EP3403545, EP3344098, EP3223668, EP3200661, EP3076833, EP3076831, EP2919628, EP2908706, EP2819559, EP2747611, EP2747610, EP2747609, EP2747608, EP2633789, CN105142470, CN105142470,

Abstract:
A device (1) for receiving an ingredient cartridge (2) and extracting the ingredient by passing heated liquid through the cartridge, has a cartridge seat (10) and a liquid injection arrangement (50, 60, 61, 70, 80, 81) for injecting heated liquid into the cartridge seat. The cartridge seat comprises a first cartridge support (20) and a second cartridge support (30) facing the first support. The first and second cartridge supports are arranged to be movable relative to one another from an open position for insertion or removal of a cartridge into the seat to a closed position for passing heated liquid through such a cartridge. At least one support (20) of the cartridge supports (20, 30) is hydraulically actuatable and movable into the closed position by the liquid injection arrangement. The liquid injection arrangement is configured to: pressurise and circulate unheated liquid to the at least one support (20) for actuating and moving said at least one support (20) by the circulating unheated pressurised liquid; and guide this circulating unheated pressurised liquid under pressure from the at least one support (20) via a heater (70) into the cartridge seat (10) for extracting the ingredient contained in the cartridge (2).



32) Family number: 41959902 (US2011041701A)

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Title: AUTOMATIC POD CONVEYOR AND BREWER ASSEMBLY FOR FRESH HOT BEVERAGE
Priority: IN2008KO00779 20080428 EP20080874112 20081229 WO2008IN00872 20081229
Family:

Publication number	Publication date	Application number	Application date
AU2008355536 AA	20091105	AU20080355536	20081229
AU2008355536 BB	20120830	AU20080355536	20081229
BRPI0822245 A2	20150623	BR2008PI22245	20081229
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CN102015471 B	20130130	CN200880128795	20081229
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EP2274210 B1	20120912	EP20080874112	20081229
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IN00779KO2008 A	20080627	IN2008KO00779	20080428
IN261098 B	20140606	IN2008KO00779	20080428
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KR101271789 B1	20130607	KR20107024485	20081229
KR20110038610 A	20110414	KR20107024485	20081229
NZ588378 A	20121130	NZ20080588378	20081229
RU2010142950 A	20120610	RU20100142950	20081229
US2011041701 AA	20110224	US20080988817	20081229
WO09133570 A2	20091105	WO2008IN00872	20081229
WO09133570 A3	20091230	WO2008IN00872	20081229

Probable Assignee: TATA GLOBAL BEVERAGES LTD
Assignee(s):(std): BALASUBRAMANIAM MUNUSAMY ; BALASUBRAMANIAM MUNUSAMY ; CHATTERJEE ASHIM ; MANI GEORGE KANDAPPALI ; TATA GLOBAL BEVERAGES LTD ; TATA TEA LTD
Assignee(s): TATA TEA LIMITED ; TATA GLOBAL BEVERAGES LIMITED
Inventor(s):(std): MANI GEORGE KANDAPPALI ; BALASUBRAMANIAM MUNUSAMY ; CHATTERJEE ASHIM ; BALASUBRAMANIAM MUNUSAMY ; KANDAPPALI MANI GEORGE ; MUNUSAMY BALASUBRAMANIAM ; ASHIM CHATTERJEE
Inventor(s): GEORGE KANDAPPALI MANI ; MUNUSAMY BALASUBRAMANIAM ; MANI GEORGE KANDAPPALI ; MANI GEORGE KANDAPPALLIL
Agent(s): BEAGAR; TURI MICHAEL; OLDHAM LI AND NIE SOLICITORS; PROGRESSIVE IP SOLUTIONS; GULWANI VD
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
International class (IPC 8-9): A47J A47J31/06 A47J31/24 A47J31/34 A47J31/36 A47J31/40 A47J31/44 A47J31/46 B65D B65D37/00 B67D1/00 B67D1/04 B67D1/08 (Advanced/Invention); A47J31/06 A47J31/24 B65D37/00 (Core/Invention)

International class (IPC 1-7): A47J31/00
CPC: A47J31/3642
European class: A47J31/36A4H
US class: 99/295 99/295P 99/300 99/300S

JP class F-Term: 3E082 3E082/AA02 3E082/AA05 3E082/BB01 3E082/CC08 3E082/EE01 3E082/FF09 4B004 4B104 4B104/AA19 4B104/AA20 4B104/BA01 4B104/BA11 4B104/BA16 4B104/BA17 4B104/BA20 4B104/BA32 4B104/BA33 4B104/BA35 4B104/BA40 4B104/BA53 4B104/BA66 4B104/BA72 4B104/CA01 4B104/CA18 4B104/CA27 4B104/DA02 4B104/DA37 4B104/EA10 4B104/EA23 4B104/EA28 4B104/EA29 4B104/EA30 4B104/EA39

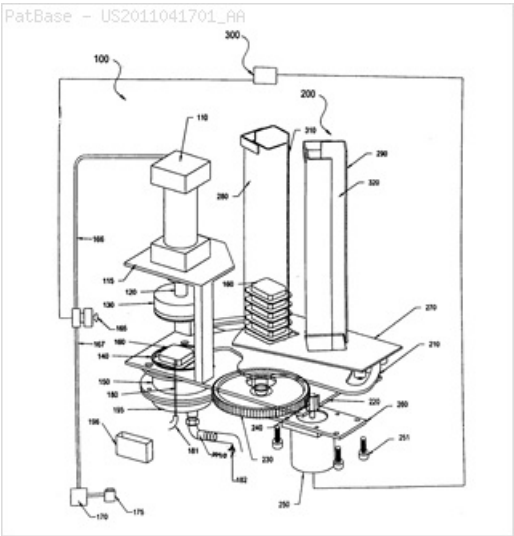
JP class F-Index: A47J31/06/A A47J31/34 A47J31/36/122 A47J31/36/124 A47J31/36/128 A47J31/44/Z B67D1/04/D B67D1/08/A

[Classification Explorer](#)

Cited documents: WO9517121 A1, WO03065859 A2, WO03039309 A1, WO02096253 A1, WO02078499 A1, US7328651 BB, US7051646 BB, US7013797 BB, US6997103 BB, US6941855 BB, US6820535 BB, US6606938 BB, US6536332 BB, US6079315 A, US5325765 A, US5028328 A, US4846052 A, US2005061158 AA, US2005031604 AA, US2004237783 AA, JPS61119219, JP9506799 T2, JP61119219 A2, JP2005516602 T2, JP2005507294 T2, JP2004529693 T2, JP2004526549 T2, JP2001155241 A2, GB2205229 A1, EP1310199 A1,

Forward Citations: WO16146793, WO14144044, WO14037474, WO14037473, WO12126971, US9950918, US9795240, US9533866, US9433317, US9210950, US8800810, US2016324365, US2016095461, US2015296860, US2015265091, US2014331217, US10405690, US10315908, US10314320, US10264912, US10213751, US10130208, US10111554, RU2615270, KR200472696, KR101539051, KR101374407, KR101262177, JP2017127650, ITTO20120035, ITMI20101912, ITMI20100739, EP2892401, EP2892400, EP2688449, EP2617333, EP2443972, CN107668758, CN107635439, CN103476305, CN103476305, CN102680026,

Abstract:
This invention relates to an automatic pod-conveyor and brewer assembly for fresh hot beverage. The brewer sub-assembly (100) includes a pneumatic cylinder (110) with its piston rod (120) fitted to a brewer plunger (130). An injection nozzle (180) is detachably fixed from underneath to the brewer base (195) with its conical tip protruding into the brewer chamber (150). The single serving pod (160) is a receptacle (510) containing the brewing, infusible or other material (520), covered and sealed with a porous membrane (530). The injection nozzle (180) injects hot pressurized water, received through its interior from a suitable water heating system, into a single serving pod (160) placed within the brewer sub-assembly (100), and the brewed beverage flows out to a dispensing cup through a liquor outlet port (190) in the brewer base (195). The pneumatic cylinder (110) is operated by air solenoid valve (165) with compressed air from a compressed air storage tank (170). The pod-conveyor sub-assembly (200) includes a pod conveyor (210) which, by its rotational movement in a horizontal plane, conveys the pod (160) to the brewer sub-assembly (100) from chutes (280, 290). The pod-conveyor (210) is operated by a pusher motor (250) in co-operation with a pusher gear (230) fitted to the integral shaft (215) of the pod-conveyor (210). The assembly can be used to prepare hot beverage of a wide variety of brewing, infusible or other materials like tea, coffee, materials of plant origin such as floral pieces like Jasmine flowers, vegetable pieces like carrots, onions, materials of animal origin such as honey or other suitable beverage powder/material which can be placed in the single serving pod (160) of the assembly.



33) Family number: 41959903 (US2011036244A) © PatBase

Title: ASSEMBLY FOR AUTOMATIC FRESH BREWING OF HOT BEVERAGE AND DISPENSING THEREOF

Priority: IN2008KO00780 20080428 WO2008IN00871 20081229

Family:

Publication number	Publication date	Application number	Application date
AU2008355535 AA	20091105	AU20080355535	20081229
AU2008355535 BB	20120830	AU20080355535	20081229
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EP2271239 A4	20120822	EP20080874111	20081229
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KR20110038609 A	20110414	KR20107024478	20081229
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RU2010142949 A	20120610	RU20100142949	20081229
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US2011036244 AA	20110217	US20080988816	20081229
WO09133569 A2	20091105	WO2008IN00871	20081229
WO09133569 A3	20091230	WO2008IN00871	20081229

Probable Assignee: TATA GLOBAL BEVERAGES LTD

Assignee(s):(std): BALASUBRAMANIAM MUNUSAMY ; BALASUBRAMANIAM MUNUSAMY ; CHATTERJEE ASHIM ; MANI GEORGE KANDAPPALI ; TATA GLOBAL BEVERAGES LTD ; TATA TEA LTD ; TATA GLOBAL BEVEREDZHES LTD

Assignee(s): TATA GLOBAL BEVEREDZHES LIMITED ; TATA TEA LIMITED ; TATA GLOBAL BEVERAGES LIMITED

Inventor(s):(std): CHATTERDZHII ASHIM ; MANI DZHORDZH KANDAPPALI ; BALASUBRAMANIAM MUNUSAMI ; KANDAPPALI MANI GEORGE ; MUNUSAMY BALASUBRAMANIAM ; ASHIM CHATTERJEE ; BALASUBRAMANIAM MUNUSAMY ; CHATTERJEE ASHIM ; BALASUBRAMANIAM MUNUSAMY ; MANI GEORGE KANDAPPALI

Inventor(s): MANI GEORGE KANDAPPALI ; MUNUSAMY BALASUBRAMANIAM ; GEORGE KANDAPPALI MANI ; MANI GEORGE KANDAPPALLI

Agent(s): BEAGAR; SAMSON AND PARTNER; OLDHAM LI AND NIE SOLICITORS; PROGRESSIVE IP SOLUTIONS; GULWANI VD

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

International class (IPC 8-9): A47J A47J31/06 A47J31/34 A47J31/36 A47J31/40 A47J31/44 B67D1/08 G07F13/06 (Advanced/Invention); A47J31/06 A47J31/24 (Core/Invention)

International class (IPC 1-7): A47J31/00 A47J31/06

CPC: A47J31/3642 A47J31/4485

European class: A47J31/36A4H A47J31/44D

US class: 99/283 99/283P

JP class F-Term: 3E047 3E047/AA02 3E047/BA01 3E047/DA02 3E047/DB09 3E047/EA08 3E047/EB01 3E047/EC06 3E047/ED01 3E047/ED04 3E047/ED06 3E082 3E082/AA02 3E082/AA04 3E082/BB01 3E082/CC08 3E082/FF09 4B104 4B104/AA19 4B104/AA20 4B104/BA01 4B104/BA09 4B104/BA11 4B104/BA15 4B104/BA16 4B104/BA17 4B104/BA20 4B104/BA21 4B104/BA22 4B104/BA29 4B104/BA32 4B104/BA33 4B104/BA40 4B104/BA43 4B104/BA53 4B104/BA59 4B104/BA66 4B104/BA72 4B104/BA80 4B104/BA81 4B104/BA89 4B104/CA01 4B104/CA02 4B104/CA10 4B104/CA17 4B104/CA18 4B104/CA19 4B104/CA21 4B104/CA27 4B104/DA02 4B104/DA07 4B104/DA09 4B104/DA29 4B104/DA37 4B104/DA44 4B104/EA18 4B104/EA21 4B104/EA25 4B104/EA28 4B104/EA29 4B104/EA30 4B104/EA35

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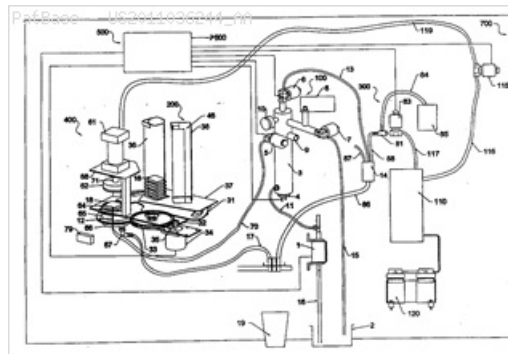
[Classification Explorer](#)

Cited documents: WO9517121 A1, WO03065859 A2, WO03039309 A1, WO02096253 A1, WO02078499 A1, US6820535 BB, US6536332 BB, US5207148 A, US5163356 A, US5028328 A, US2005095158 AA, US2005061158 AA, US2005031604 AA, JPS61119219, JP9506799 T2, JP61119219 A2, JP6022856 A2, JP2005516602 T2, JP2005507294 T2, JP2004529693 T2, JP2004526549 T2, JP2001155241 A2, GB2205229 A1, EP1310199 A1, EP0472272 A2,

Forward Citations: WO16133768, US9962033, US9532677, US2017183610, US2016244249, US2016242456, US2016242455, US2016205988, US2015196160, US2015027317, US2014331217, US2012211521, US10399874, US10285910, US10130208, US10111810, US10099443, US10077544, US10046904, US10046903, US10031533, KR101629334, KR101407283, CN107529911, CN106998950, CN105030071, CN103732109, CN103120545, CN103120545,

Abstract:

This invention relates to an assembly for automatic fresh brewing of hot beverage and dispensing thereof which uses single serving pods (18) stacked in plurality of static vertically extending chutes (36, 38). The assembly dispenses each individual serving of fresh hot beverage with consistent taste and flavor, within a short time and customized to a consumer's preference like 'strong', 'light', 'with milk', 'without milk', etc. The assembly includes a water heating sub-assembly (100) for hot pressurized water for the brewing purpose; a pod-conveyor sub-assembly (200) for automatically conveying the pod (18) from the chutes (36, 38) to the brewer sub-assembly (400) and disposing off the used pod (18); a milk-input sub-assembly (300) for dispensing heated milk directly to a dispensing cup (19), when desired by the consumer; a brewer sub-assembly (400) for brewing of the brewing, infusible or other material (111) contained in pod (18) to produce fresh hot beverage; an electronic processor (500); an electronic control panel (600) with plurality of switches (610), each switch (610) corresponding to a preference of a consumer; a water reservoir (2); and compressed air storage tank (110) containing air compressed by an air compressor (120); and air solenoid valves (83, 115). The assembly is capable of brewing wide variety of brewing, infusible or other materials including, but without implying any limitation thereto, tea, coffee, material of plant origin such as floral pieces like Jasmine flowers, vegetable pieces like carrots, onions, material of animal origin such as honey or any other suitable beverage powders or materials which can be placed in the single serving pod (18) of the assembly.



Title: MOVING INLET NOZZLES IN BEVERAGE SYSTEMS

Priority:

US20140940290P	20140214	US20140977069P	20140408	US20140060282P	20141006
US20140069772P	20141028	US20150112627P	20150205	US20150118473	20150213
WO2015US15971	20150213	US20150136258P	20150320	US20150303213	20150408
WO2015US25013	20150408	US20150230508P	20150605	US20150174443P	20150611
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US20150199941P	20150731	US20150202709P	20150807	US20150202753P	20150807
US20150516893	20150813	WO2015US45146	20150813	WO2015US54312	20151006
US20150516894	20151006	WO2016US16884	20160205	US20160549106	20160205
US20160056131	20160229	US20160076144	20160321	US20160174290	20160606
US20160174339	20160606	US20160222724	20160728	US20180024453	20180629

Family:	Publication number	Publication date	Application number	Application date
	AU2015218305 AA	20160929	AU20150218305	20150213
	AU2015243541 AA	20161124	AU20150243541	20150408
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	EP3203882 A1	20170816	EP20150848685	20151006
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	US2017172338 AA	20170622	US20150118473	20150213
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	WO1517475 A1	20151015	WO2015US25013	20150408
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	WO16057568 A1	20160414	WO2015US54312	20151006
	WO16127126 A1	20160811	WO2016US16884	20160205
	WO17023707 A1	20170209	WO2016US44576	20160728

Probable Assignee: COFFEE SOLUTIONS LLC**Assignee(s):**(std): BURROWS BRUCE ; BURROWS BRUCE D ; COFFEE SOLUTIONS LLC ; REMINGTON DESIGNS LLC**Assignee(s):** MALETIS CHRIS ; MALETIS ED ; HAGEN DAVID**Inventor(s):**(std): BURROWS BRUCE D ; BURROWS BRUCE

Agent(s): MURRAY TRENTO AND ASSOCIATES PTY LTD; GRIFFITH HACK; OYEN WIGGS GREEN AND MUTALA LLP; GOWLING WLG CANADA LLP; GEVERS PATENTS; KOHLER SCHMID MOEBUS PATENTANWALTE; DESHIMARU TAKESHI; MATSUSHITA MITSURU; KURASAWA ICHIRO; WATANABE TORU; KOPPEL PATRICK HEYBL AND PHILPOTT; BUCHALTER; LOWRY STUART O ET AL; DONALDSON COREY A ET AL; ORLER ANTHONY 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

International class (IPC 8-9): A23F3/18 A23F5/26 A47J31/00 A47J31/02 A47J31/057 A47J31/06 A47J31/10 A47J31/22 A47J31/24 A47J31/34 A47J31/36 A47J31/40 A47J31/44 A47J31/46 A47J31/52 A47J31/54 A47J31/56 A47J31/60 B65D85/804 F04B49/06 G05B11/42 (Advanced/Invention)

CPC: A47J31/22 A47J31/3633 A47J31/3676 A47J31/0673 A47J31/4403 A47J31/462 A47J31/002 A47J31/4475 A23F5/262 A47J31/3685 A47J31/10 F04B49/06 A47J31/56 F04B1/12 F04B13/00 F04B23/02 F04B43/02 F04B49/065 F04B49/106 F04B49/20 F04B2205/09 A47J31/465 A23F3/18 A23F5/26 A47J31/3628 A47J31/407 A47J31/057 A47J31/36 A47J31/3695 A47J31/44 A47J31/46 A47J31/52 B65D85/8043

US class: 1/1 426/115 426/231 426/425 426/431 426/433 99/279 99/280 99/283 99/287 99/295

JP class F-Term: 3E035 4B104 4B104/AA20 4B104/BA15 4B104/BA17 4B104/BA21 4B104/BA22 4B104/BA40 4B104/BA41 4B104/BA43 4B104/BA68 4B104/BA82 4B104/CA07 4B104/CA18 4B104/CA19 4B104/CA26 4B104/CA27 4B104/DA51 4B104/EA13 4B104/EA27 4B104/EA30 4B104/AA19 4B104/BA16 4B104/BA20 4B104/CA06 4B104/DA08 4B104/DA09 4B104/DA11 4B104/DA39 4B104/DA44 4B104/DA45 4B104/EA17 4B104/EA19 4B104/EA34 4B104/DA33 4B104/EA31 4B104/BA23 4B104/BA33 4B104/BA34 4B104/CA09 4B104/DA20

JP class F-Index: A47J31/06/323 A47J31/36/122 A47J31/40/107 A47J31/44/196 B65D85/804/200 A47J31/00/302 A47J31/44/170 A47J31/46 A47J31/56 A47J31/36/320 A47J31/60

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DE102008050532 A1

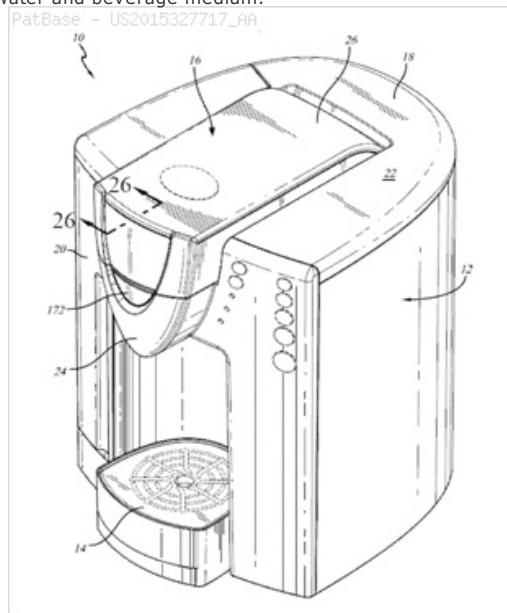
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Forward Citations: WO18172937, WO18156361, WO18029538, WO17161680, WO17031212, US9854934, US2018220836,

US2017354290, US2017188748, US2017095108, US2016278570, US2015374168, US10172494, US10149570, US10123651, US10039413, IT201700032502, EP3367854, EP3359000, DE102016003515, CN108006411, CN107232981,

Abstract:

The brewing system disclosed herein includes a moving inlet nozzle for use in intermixing hot water and coffee in a coffee cartridge. The inlet nozzle may include one or more flow ports that inject hot water into an inner chamber of the coffee cartridge at select angles, locations and pressures to create the desired fluidized mixture of hot water and beverage medium.



35) Family number: 58129951 (US2017340160A)

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Title: BEVERAGE PREPARATION WITH PRESSURIZED LIQUID

Priority: GB20140018881 20141023 EP20150791016 20151023 WO2015GB53194 20151023
RU20170117424 20151023

Family:	Publication number	Publication date	Application number	Application date
	BR112017008145 A2	20180220	BR20171108145	20151023
	CA2964502 AA	20170413	CA20152964502	20151023
	CN107105922 A	20170829	CN201580057791	20151023
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	EP3209167 A1	20170830	EP20150791016	20151023
	EP3209167 B1	20180926	EP20150791016	20151023
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	RU2019123861 A	20190814	RU20190123861	20151023
	RU2697624 C2	20190815	RU20170117424	20151023
	US2017340160 AA	20171130	US20150521155	20151023
	WO16063087 A1	20160428	WO2015GB53194	20151023

Probable Assignee: LAVAZZA PROFESSIONAL NORTH AMERICA LLC

Assignee(s):(std): AUSTIN PETER ; FLETCHER PAUL ; KNOWLES DAVID ; MARS INC ; THOMPSON MARK ; MOULD PHILIP

Assignee(s): MARS INKORPOREJTED ; MARS INC MCLEAN ; MARS DRINKS NORTH AMERICA LLC ; LAVAZZA PROFESSIONAL NORTH AMERICA LLC

Inventor(s):(std): THOMPSON MARK ; KNOWLES DAVID ; FLETCHER PAUL ; AUSTIN PETER ; MOULD PHILIP ; PAUL FLETCHER ; DAVID KNOWLES ; MARK THOMPSON ; PHILIP MOULD ; PETER AUSTIN

Inventor(s): FLETCHER POL ; NOULZ DEVID ; TOMPSON MARK ; MOULD FILIP ; OSTIN PITER

Agent(s): CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; CARPMAELS AND RANSFORD LLP; YURIDICHESKAYA GORODISSKIJ I PARTNER Y OOO FA; COCKERTON BRUCE ROGER 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

International class (IPC 8-9): A47J31/00 A47J31/06 A47J31/36 A47J31/40 A47J31/44 (Advanced/Invention)

CPC: A47J31/3623 A47J31/369

US class: 1/1 99/302R

JP class F-Term: 4B104 4B104/AA20 4B104/BA40 4B104/BA55 4B104/BA80 4B104/BA82 4B104/EA13 4B104/EA17 4B104/EA39 4B104/EA40

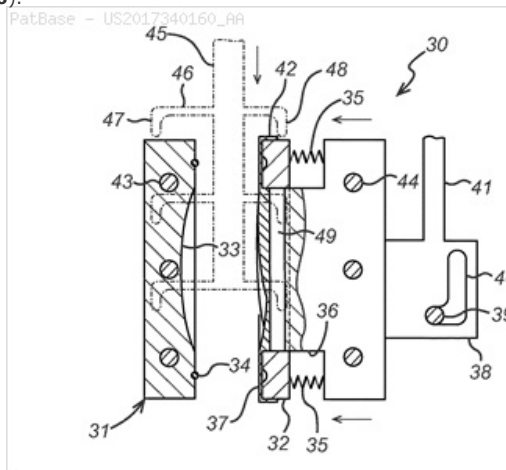
[Classification Explorer](#)

Cited documents: WO9905044 A1, WO9905036 A1, WO9402059 A1, WO9401344 A1, WO9317932 A1, WO9001449 A1, WO9001449 A1, WO12175985 A1, WO12175985 A1, WO07093355, WO0219875 A1, WO0219875 A1, WO02087400, WO0160220, US6805041 BB, US5840189 A, US2011142996 AA, US2011027425 AA, US2011000376 AA, JP4142266 A2, JP4142266 A2, GB2379624 A1, GB2122881 A1, GB2121762 A1, FR2770987 A1, EP0821906, EP0710462, EP0521186, EP0512468, EP0468079, EP0272922, EP0247841, EP0179641, CN103764000 A, CN103763998 A,

Forward Citations: WO18200186,

Abstract:

A beverage preparation apparatus for preparation of a beverage from a capsule in a clamp assembly (30). The clamp assembly has a first clamp member (31) and a second clamp member, where the inner surfaces of the first clamp member and the second clamp member form a clamp chamber (33) for substantially enclosing and supporting a capsule (10) during beverage preparation. The second clamp member comprises a rigid peripheral frame (32) having a central void and a resilient layer (37) extending across said central void. There is a piston (36) positioned in the central void and resiliently coupled to the peripheral frame (32) to allow limited resilient movement of the rigid peripheral frame (32) relative to the piston (36).

**36) Family number: 5902998** (US4655266A)

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Title: Beverage vending machine
Priority: FR19840012112 19840727 EP19850440048 19850712 US19850759417 19850726
FR19860009500 19860627 EP19870440037 19870618 EP19870440037 19870618

Family:	Publication number	Publication date	Application number	Application date
	AT38615 E	19881215	AT19850440048T	19850712
	AT55685 E	19900915	AT19870440037T	19870618
	DE3566219 D1	19881222	DE19853566219	19850712
	DE3764413 D1	19900927	DE19873764413	19870618
	EP0172126 A1	19860219	EP19850440048	19850712
	EP0172126 B1	19881117	EP19850440048	19850712
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	ES2017755 B3	19910301	ES19870440037T	19870618
	FR2568119 A1	19860131	FR19840012112	19840727
	FR2568119 B1	19870626	FR19840012112	19840727
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	GR3000990 T3	19911210	GR19900400829T	19901029
	US4655266 A	19870407	US19850759417	19850726
	US4738290 A	19880419	US19860935573	19861126

Probable Assignee: APP AUTOMATIQUE ET SIROPSDITE

Assignee(s):(std): FAAS ; FAAS FAB APP AUTOMAT SIROPS ; FAAS SARL ; APP AUTOMATIQUE ET SIROPSDITE ; APP AUTOMATIQUES ET SIROPS F A ; APP AUTOMATIQUES SIROPS ; DE FABRICATION D APPAREILS AUTOMATIQUES ET SIROPS F A A S SOC

Assignee(s): DE FABRICATION D APPAREILS AUTOMATIQUES ET SIROPS FAAS SOC ; SOCIETE DE FABRICATION D APPAREILS AUTOMATIQUES ET SIROPS DITE F A A S SOCIETE A RESPONSABILITE LIMITEE ; DE FAB SOC ; DE FABRICATION D APPAREILS AUTOMATIQUE ET SOC ; DE FABRICATION D APPAREILS AUTOMATIQUES ET SOC ; DE FABRICATION D'APPAREILS AUTOMATIQUES ET SIROPS ; DE FABRICATION D APPAREILS AUTOMATIQUES ET SIROPS ; SOCIETE DE FABRICATION D APPAREILS AUTOMATIQUE ET SIROPSDITE ; DE FABRICATION D APPAREILS AUTOMATIQUES ET SIROPS FAAS SOCIETE A RESPONSABILITE LIMITEE SOC

Inventor(s):(std): CIEKANSKI FRANCOIS ; FRANCOIS CIEKANSKI

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8-9): A47J31/40 G07F13/06 G07F13/10 (Core/Invention)

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1-7):

CPC: A47J31/401 G07F13/065 G07F13/10 A47J31/41
European class: A47J31/40C A47J31/41 G07F13/06B G07F13/10
US class: 141/104 141/174 141/82

[Classification Explorer](#)

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Abstract:

A beverage vending machine having a cup magazine for delivery of cups individually to a readiness position for receiving a metered amount or quantity of a beverage ingredient, either in liquid or solid form, for formulation of a beverage. A metering device in the form of a metering slide valve delivers a metered quantity to individual cups successively. The slide valve has a valve gate that is provided with a metering space, formed as a through opening, for cyclical registry with an open lower opening of a receptacle containing the beverage ingredient. The slide valve is operated to deliver the metered quantity to a cup delivered from a cup magazine. The cup with the beverage ingredient is delivered via a chute to an access recess in the machine at which a liquid is added to the cup to formulate the beverage mixture. A mixer mixes the formulated beverage mixture.

