



New connection on: : 05-03-2018 : 20:22:30 - Last disconnection on: : 05-03-2018 : 16:59:00

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

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 7] ..fiepodoc

 Database: EPODOC

[EPODOC: SS 7] brew+ and chamber and valve+

Results in EPODOC 481

[SS 8] brew+ and chamber+ and valve+

Results in EPODOC 492

[SS 9] * and (passageway+ or hole+)

Results in EPODOC 51

[SS 10] * and pd<2013-11-20

Results in EPODOC 29

[SS 11] ..v

[EPODOC: SS 11] ..li 1-10



1/29 © EPODOC / EPO

PN - [CN103243010](#) A 20130814

PR - CN20131221617 20130606

AP - CN20131221617 20130606

DT - I

CT - || STSE (A)

[CN202915741U](#) U 20130501 [X] (WENG JIANMING)

[X] 1-2

具体实施方式,说明书第2-3段

[CN2771785Y](#) Y 20060412 [A] (ZOU CHANGXIAO [CN])

[A] 1-2

全文

[CN2080863U](#) U 19910717 [A] (WU XIBO [CN])

[A] 1-2

全文

[CN202460161U](#) U 20121003 [A] (SHENGHUA SHI)

[A] 1-2

全文

[CN201279399Y](#) Y 20090729 [A] (CHANGZHOU CITY WUJIN DONGFANG [CN])

[A] 1-2

全文

[CN201154240Y](#) Y 20081126 [A] (WENHUA WU [CN])

[A] 1-2

全文

[CN2360418Y](#) Y 20000126 [A] (XIAO LILIANG [CN])

[A] 1-2

全文

[WO02090265](#) A1 20021114 [A] (WEN-SEN SHIH [NZ])

[A] 1-2

全文

PA - ZUNYI SOUTHWEST MACHINERY EQUIPMENT CO LTD

TI - Distiller condenser for **brewing** white spirits

AB - The invention relates to a distiller condenser for **brewing** white spirits, which comprises a hot water layer, a cold water layer, a spirits outlet spiral pipe, a shell, spiral pipes, a flow isolating plate a, a flow isolating plate b, a spirits outlet pipe, a sealing gasket, a flange, a steam inlet pipe, corner posts, a blow-off pipe, a water inlet pipe, a water outlet pipe, a solenoid **valve** and a temperature sensor. The shell is cylindrical and is divided into three areas, i.e. an upper area, a middle area and a lower area. The hot water layer is arranged at the top. The water outlet pipe for hot water is arranged at the top of the hot water layer. The cold water layer is arranged at the bottom. The spirits outlet spiral pipe is arranged in the cavity of the cold water layer. An inlet at the upper end of each spiral pipe is connected with a baffle **hole** at the bottom of a middle layer. An outlet at the lower end of each spiral pipe is connected with the spirits outlet pipe. Three to four layers of spiral pipes are arranged in the cylindrical **chamber** at the middle part. The flow isolating plates are arranged among layers. Spirits steam flow guide **holes** are formed in opposite sides of the flow isolating plates. The spiral pipes at each layer are concentrically sheathed in two to three rings from inside to outside. By adopting the technical scheme, the water can be saved, the secondary utilization of 70DEG C hot water can be realized, water vapor does not leak into a workshop, and spirits temperature can be automatically controlled.

2/29 © EPODOC / EPO

PN - [TW201204297](#) A 20120201

PNFP - TWI439240B B 20140601

PR - TW20100124606 20100727

AP - TW20100124606 20100727



DT	- I
PA	- (A) CHEN HAN-ZONG [TW]; CHEN WEI-FU [TW]
TI	- (A) Automatic non-return type tea brewing kettle
AB	- (A) An automatic non-return type tea brewing kettle includes a tea liquid pot, a non-return valve device and a tea brewing pot; in which the tea leaves are put in a tea brewing chamber of the tea brewing pot; the tea brewing liquid is poured from a funnel of the tea liquid pot into the tea brewing chamber to be contacted with the tea leaves; the liquid level of the tea- brewing liquid rises to generate buoyancy on a floating body of the non-return valve device to upwardly push a valve member to open a valve hole , so that the tea- brewing liquid enters the tea liquid chamber of the tea brewing pot through the valve hole to reach the required liquid level for tea brewing ; under the state that an upper cover is covered back to the tea brewing pot, the tea brewing pot can stand upside down facing upwards at any time that the tea liquid inside the tea brewing chamber is discharged to the tea liquid chamber to stop dipping of the tea leaves; by only returning the tea liquid pot back facing upwardly, the liquid pressure will downwardly push the valve member and the floating body will be lowered to downwardly pull the valve member by the weight to re-seal the valve hole , and thus the tea

liquid is prevented from flowing back to the tea **brewing chamber**, and most of the tea liquid is held in the tea liquid **chamber** for discharging and drinking. Thus, during tea **brewing**, there is no need for using multiple cups and pots. Moreover, the return flow of the tea liquid may push the non-return **valve** without a switch for switching, so as to enhance the operation convenience of tea **brewing** pot.

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- PN - [CN202143588U](#) U 20120215
- PR - CN20112267697U 20110727
- AP - CN20112267697U 20110727
- DT - I
- PA - XINBAO ELEC EQUIPMENTS CO LTD
- TI - Water inlet-outlet **valve** device
- AB - The utility model provides a water inlet-outlet **valve** device which comprises a **valve** body, a **valve** cover and a **valve** core, wherein a water outlet end is arranged in an inner cavity surrounded by the **valve** body and the **valve** cover; the **valve** core slides in the **valve** body in a self axis direction; an upper sliding **hole** is formed at the upper end, which corresponds to the **valve** core, of the **valve** cover; a lower sliding **hole** is formed at the lower end, which corresponds to the **valve** core, of the **valve** body; a water outlet sealing ring, a middle sealing ring and a water inlet sealing ring are arranged on the **valve** core and correspond to the upper side of the upper sliding **hole**, the inner cavity and the lower side of the lower sliding **hole** respectively; and a water outlet channel communicated with the inner cavity is arranged on the upper side or lower side, which corresponds to the middle sealing ring, of the **valve** core. When the water inlet-outlet **valve** device provided by the utility model is applied to a coffee maker and a spring is combined with a top cover to close the top cover, the water outlet end is in an open state, so that water of a heating system can conveniently enter a coffee **brewing chamber**; and a water inlet end is in a closed state, so that coffee is prevented from flowing back to a water outlet tank when being poured out. When the top cover is opened, the water inlet end is in an open state, so that water can be conveniently added to a water storage tank; and the water outlet end is in a closed state, so that hot water in the heating system is prevented from being ejected out and hurting people.

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- PN - [CN202116535U](#) U 20120118
- PR - CN20112104135U 20110412
- AP - CN20112104135U 20110412
- DT - I

- PA - DETAO KONG
- TI - Fermentation tank of wine with automatic gas flow stirring function
- AB - The utility model relates to a fermentation tank of wine with an automatic gas flow stirring function and particularly relates to a process that carbon dioxide gas flow is produced in fermentation of wine and circulates at intervals to achieve stirring effects in the tank under the condition that pressure is controlled by a **bypass valve**. The fermentation tank comprises a tank top rotating spraying device, a man **hole**, a bypass pipe, a bypass pipe purification **hole**, the bypass **valve**, a separation plate, a gas **chamber**, a sampling pipe, a tank body, a base, a tank bottom rotating spraying device, a sewage outlet, a feeding pipe and a fixing frame. The fermentation tank has the advantages of achieving dynamic digestion in a fermentation process, simultaneously being provided with convenient rotating and spraying at the tank top and the tank bottom, improving the **brewing** quality of the wine and being convenient to operate, flexible, sanitary and environment-friendly.

5/29 © EPODOC / EPO

- PN - [RU2009125549](#) A 20110120
- PNFP - RU2436489 C2 20111220
- PR - EP20060025196 20061206
- AP - RU20090125549 20071205
- DT - I
- CCI - [A47J31/465](#)
- PA - (C2)
REH VENDORS S P A [IT]
- TI - (C2)
MACHINE FOR DISPENSING
BEVERAGE AND MACHINE
OPERATION METHOD
- AB - (C2)
FIELD: personal use articles. ^
SUBSTANCE: present invention
relates to a beverage dispensing
machine and this machine
operation method, in particular,
to a full automatic or semi-
automatic machine dispensing
coffee/beverage. The beverage
dispensing machine is equipped
with a **brewing chamber** (2) and
at least one electrovalve for
control of flow rate of the
beverage flowing out of
the **brewing chamber** (2); the
said at least one electrovalve
represents a piezoelectric **valve**
(3. 3'). The method for operation

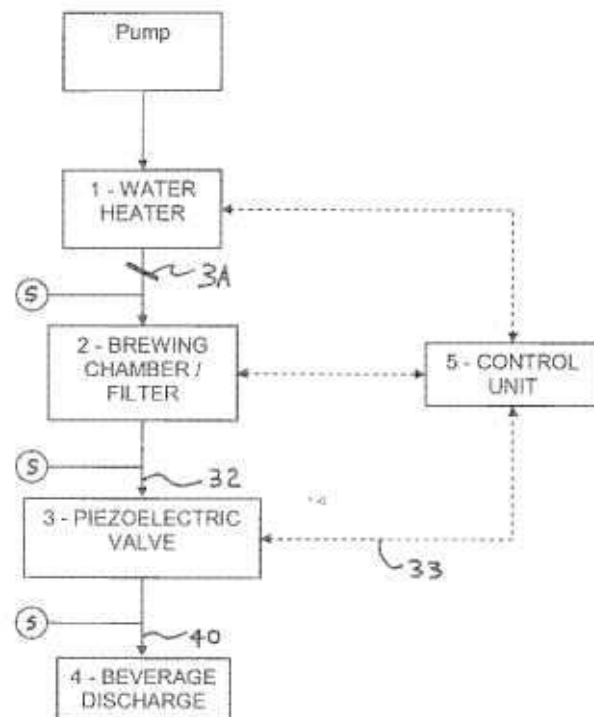


FIG. 1

of the beverage dispensing machine equipped with a **brewing chamber** contains a stage whereat one controls the **chamber** outlet **hole** opening/closing operation to the required extent via an electrovalve which represents a piezoelectric **valve** (3. 3'). ^
 EFFECT: invention is aimed at offering a machine for beverage dispensing, the machine can easily be controlled and kept cleaned, allows fast control of the beverage flow rate at the **brewing chamber** outlet and immediate control of the **valve** located at the **brewing** outlet **chamber** at the stage of beverage preparation and dispensing in order to compensate for possible deviations of other parameters of the machine from the optimal value. ^ 22 cl, 7 dwg

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- PN - [CN202060456U](#) U 20111207
- PR - CN2011290950U 20110331
- AP - CN2011290950U 20110331
- DT - I
- PA - HANZONG CHEN; WEIFU CHEN
- TI - Multi-effect tea making tank
- AB - The utility model discloses a multi-effect tea making tank; a tea tank body is divided into a tea making **chamber** and a tea liquid **chamber** by a spacing part, a rod bearing groove, an insertion link slot and a through **hole** are formed at the position of the spacing part in an integrating manner, a **valve** rod piece is only needed to be inserted in the insertion link slot to be assembled with the rod bearing groove, that is, the through **hole** can be controlled to be opened and closed through rotary operation of the **valve** rod piece, so that when the tea making tank is used for **brewing** tea leaves, the use is convenient, and the operation is simple; besides, the multi-effect tea making tank has a simple structure, is simpler in component assembly, is smoother in tea liquid circulation, and has lower manufacturing cost and good tea liquid anti-leakage effect.

7/29 © EPODOC / EPO

- PN - [CN201727364U](#) U 20110202
- PR - CN20102224587U 20100609

AP - CN20102224587U 20100609
DT - I
PA - GINO CREATION CO LTD
TI - **Brewing** head of beverage **brewing** mechanism
AB - The utility model discloses a **brewing** head of a beverage **brewing** mechanism. A group of jet flow **chambers** provided with a nozzle is formed at the juncture between a water inlet channel and a water outlet channel of a **brewing** head body; hot water flowing inwards from the water inlet channel is injected into the water outlet channel after being throttled through the nozzle; an installation **hole** of each jet flow **chamber** is enclosed in a water tightness keeping mode by an enclosing element; and after an adjusting **valve** rod passes through the enclosing element, a needle **valve** part at the bottom of the adjusting **valve** rod extends into the nozzle. A user can operate the adjusting **valve** rod from the outside so as to change the extension travel of the needle **valve** and adjust the hot water ejection amount of the nozzle.

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PN - [RU2009100933](#) A 20100720
PNFP - RU2423065 C2 20110710
PR - EP20060012333 20060614
AP - RU20090100933 20070613
DT - I
CCI - [A47J31/3609](#) ; [A47J31/3614](#)
PA - (C2)
REH VENDORS S P A [IT]
TI - (C2)
**BREWING MODULE OF
AUTOMATIC COFFEE MAKERS**
AB - (C2)
FIELD: personal use articles. ^
SUBSTANCE: invention relates to a **brewing** module of an automatic coffee maker. The **brewing** module comprises a **brewing chamber** to hold a dose of coffee powder, an inlet **hole** to supply water into a **chamber** to make a coffee drink, the first piston that comprises a movable wall of the **brewing chamber** to adjust its inner volume, besides, there is an output **hole** in this wall to let the coffee drink out of the **chamber**, and a **valve** to open or to close the output **hole**. Preferably there is a second

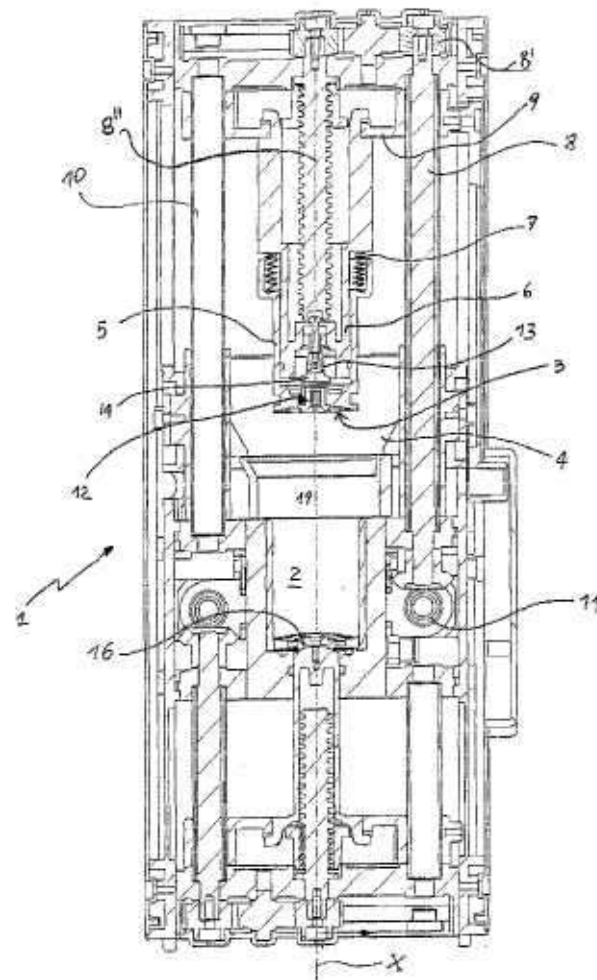


FIG. 2

piston, which moves the first piston and bears the **valve**. The second piston is arranged with the possibility to move relative to the first piston to actuate the **valve**. ^ EFFECT: invention provides a **brewing** module, which makes it possible to close the **valve** installed downstream the **brewing chamber** and to simultaneously prevent jamming of the **valve** body. ^ 20 cl, 6 dwg

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- PN - [CN201445358U](#) U 20100505
- PR - CN2009206679U 20090326
- AP - CN2009206679U 20090326
- DT - I
- PA - MINZHENG WANG
- TI - Ice drop beverage manufacturing device
- AB - The utility model provides an ice drop beverage manufacturing device comprising mainly an ice drop device body, wherein, the ice drop device body comprises an ice storage **chamber** on an upper layer, a fluid storage **chamber** on a lower layer, and a raw material **chamber** arranged between the ice storage **chamber** and the fluid storage **chamber**, wherein, openings and mesh **holes** are uniformly formed at the bottom parts of the ice storage **chamber** and the raw material **chamber**; and a water outlet **valve** opening is formed at the lower part of the fluid storage **chamber**. In using the device, all that is needed is to put an ice block into the ice storage **chamber** and put a **brewing** object into the raw material **chamber**, and after the ice block melts, water fluid drops down through the openings uniformly to the **brewing** object, and beverage which is deprived from the combination of the water fluid and the **brewing** object drops down to the fluid storage **chamber** for people's enjoyment.

10/29 © EPODOC / EPO

PN - [CN101474039](#) A 20090708

PNFP - CN101474039B B 20130515

PR - EP20080382001 20080102

AP - CN20081190295 20081230

DT - I

CCI - [A47J31/36](#) ; [A47J31/46](#)

PA - (A)
 CELAYA EMPARANZA GALDOS INT
 S [ES]
 (B)
 CELAYA EMPARANZA GALDOS INT
 S A

TI - (A B)
 Coffee maker with
 depressurization **valve**

AB - (A)
 A coffee maker comprising a
 boiler assembly (B), a filter
 holder (C) with a **brewing**
chamber (15), a steamer
 assembly (D), a depressurizing
 waste water reservoir and a
 mechanical three-way **valve**
 assembly (A), the latter
 comprising an inlet (10) from the
 boiler assembly (B), a first outlet
 (11) to the **brewing chamber** (15)
 and a second outlet (12) to the
 depressurizing waste water
 reservoir. The three-way **valve**
 assembly (A) also comprises a
 first **chamber** (1.2) into which
 the inlet (10) opens, a
 second **chamber** (1.3) having the
 first and second outlets (11 and
 12), a **passageway** (1.1) between
 both **chambers** (1.2 and 1.3), and
 a piston (6) that extends into the
 first and the second **chambers**
 (1.2 and 1.3) through
 the **passageway** (1.1) between
 them, said piston (6) having a
 gasket (9) in the second **chamber**
 (1.3) that can seal alternatively
 the **passageway** (1.1) or the
 second outlet (12).

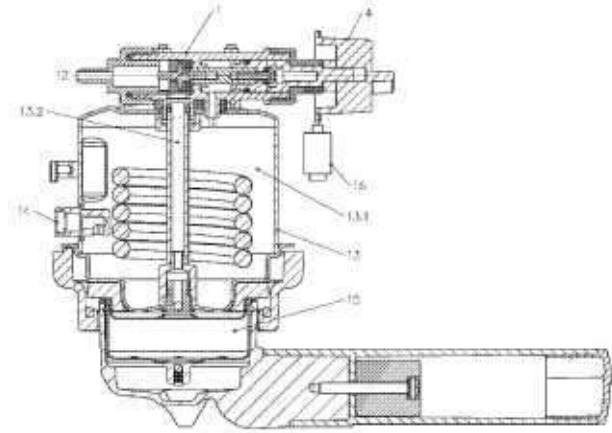


FIG. 2

