



New connection on: : 20-11-2020 : 17:13:57 - Last disconnection on: : 20-11-2020 : 14:11:29

V 4.0.0.44803(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201820)) (RPM D201820)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 48] ..er all from begin

[SS 1] (waste or gray) and (washing 5d machine) and toilet and valve and sensor and tank

Results in EPODOC 5

[SS 2] ..li



1/5 © EPODOC / EPO

PN - [CN206784521U](#) U 20171222

PR - CN201720267358U 20170317

AP - CN201720267358U 20170317

DT - I

CCA - [Y02A20/00](#)

CA - Y02A20/00 (EP)

PA - UNIV SCIENCE & TECHNOLOGY LIAONING

TI - Domestic **waste** water intelligent circulation utilizes system

AB - The utility model provides a domestic **waste** water intelligent circulation utilizes system, includes water **tank**, filter, level **sensor** I, water pump, pressure **sensor**, check **valve**, solenoid **valve** I, water **tank** one side is upper and lower to be connected with hand wash sink and **washing machine** respectively, installs filter and check **valve** on hand wash sink and the **washing machine** pipeline respectively, be equipped with water **tank** overflow mouth, circulating water export at the water **tank** opposite side, water pump, pressure **sensor** and check **valve** are installed to the upbound entry of circulating water exit linkage **toilet** on water **tank** circulating water export pipeline, **toilet** entry linkage water supply line, the last solenoid **valve** I of installing of water supply line, pressure **sensor** is connected with the water pump, the upper end installation level **sensor** I that the water **tank** circulating water goes out is connected with water pump, solenoid **valve** I. The utility model discloses degree of automation is high, simple structure, and the water reuse is efficient, and occupation space is little, simple to operate, only need carry out small repacking to hand wash sink, **washing machine** drainage hose and **toilet**'s upper hose can.

2/5 © EPODOC / EPO

PN - [CN205205914U](#) U 20160504

PR - CN20152132514U 20151214

AP - CN20152132514U 20151214

DT - I

CCA - [Y02A20/30](#)

CA - Y02A20/30 (EP)

PA - ZHENGZHOU INST AERONAUTICAL IND MAN

TI - Water treatment device

AB - The utility model relates to a water treatment device, water treatment device contains the open storage water **tank** in upper portion, overvoltage protection water pump, tee bend, running water solenoid **valve** and control circuit, and the upper portion side of storage water **tank** is equipped with an overflow export, is equipped with a delivery port to the side of the lower part, and the delivery port passes through first mouthful of intercommunication on the overvoltage protection water pump and three -way, and three -way second mouth communicates with **toilet**'s water inlet, and three -way third mouth passes through running water solenoid **valve** and water pipe intercommunication, contain microprocessor, level **sensor**, first triode, second triode, first relay and second relay among the control circuit, level **sensor** installs in the lower part of storage water **tank** inside wall, and microprocessor's control signal passes through triode and relay control overvoltage protection water pump and running water solenoid **valve**, and level **sensor** and microprocessor's liquid level signal input part are connected, the utility model provides a can carry out the water treatment device that effective recycling utilized with **washing machine** exhaust **waste** water.

3/5 © EPODOC / EPO

PN - [CN104234155](#) A 20141224

PR - CN201310224212 20130607

AP - CN201310224212 20130607

DT - I

PA - XU GUOMIN

TI - **Waste** water flushing device with heat **sensor**

AB - The invention discloses a **waste** water flushing device with a heat **sensor**. The **waste** water flushing device comprises a water collecting **tank** arranged under a kitchen finger bowl and connected with a drain port of the kitchen finger bowl, a water storage **tank** arranged under a **toilet** finger bowl and connected with a drain port of the **toilet** finger bowl and a connecting pipeline for connecting the water collecting **tank** with the water storage **tank**, wherein a bifurcate pipeline connected to a drain port of a **washing machine** is arranged at one end of the connecting pipeline. A battery, the heat **sensor** and a flushing **valve** are further arranged on the water storage **tank**, and the heat **sensor**, the battery and the flushing **valve** are connected through guide bodies. When the **waste** water flushing device is used, the heat **sensor** can sense heat of a user close to the water storage **tank** and control the flushing **valve** to be opened for flushing after the user leaves.

4/5 © EPODOC / EPO

PN - [CN104234150](#) A 20141224

PR - CN201310224246 20130607

AP - CN201310224246 20130607

DT - I

PA - XU GUOMIN

TI - **Waste** water flushing device with sound **sensor**

AB - The invention discloses a **waste** water flushing device with a sound **sensor**. The **waste** water flushing device comprises a water collecting **tank** arranged under a kitchen finger bowl and connected with a drain port of the kitchen finger bowl, a water storage **tank** arranged under a **toilet** finger bowl and connected with a drain port of the **toilet** finger bowl and a connecting pipeline for connecting the water collecting **tank** with the water storage **tank**, wherein a bifurcate pipeline connected to a drain port of a **washing machine** is arranged at one end of the connecting pipeline. A battery, the sound **sensor** and a flushing **valve** are further arranged on the water storage **tank**, and the sound **sensor**, the battery and the flushing **valve** are connected through guide bodies. When the **waste** water flushing device is used, the sound **sensor** can sense sound given by a user close to the water storage **tank** and control the flushing **valve** to be opened for flushing after the user leaves.

5/5 © EPODOC / EPO

PN - [KR20030070688](#) A 20030902

PR - KR20020010190 20020226

AP - KR20020010190 20020226

DT - I

CT - || STSE (A)
[JP2000319956](#) A 20001121 [] (NIPPON EKOROJII KK);
[JPH1190464](#) A 19990406 [] (TOTO LTD);
[KR20000017858](#) A 20000406 [] (KOREA WATER RESOURCES ENGINEER);
[JPH09119164](#) A 19970506 [] (OKAMOTO DENKI KK);
[JPH05237499](#) A 19930917 [] (NAKAGAWA KAGAKU SOCHI KK, et al)

CI - C02F9/00 (KR)

CA - C02F2103/002 (KR)

- C02F2201/005 (KR)

PA - KIM MUN GYEOM [KR]

TI - A PRACTICAL **WASTE** WATER RECLAMATION AND REUSING SYSTEM

AB - PURPOSE: A wastewater reclamation system is provided which recycles the collected wastewater as flushing water for **toilet** bowl by collecting wastewater generated in residence institution such as general household and office. CONSTITUTION: In a wastewater reclamation system in which reclaimed wastewater generated from wastewater generator(19) such as basin, bathtub, **washing machine** and rainwater catchment **tank** is pumped by suction motor pump(5) so that the pumped wastewater is collected into storage **tank**(10) through supply pipe(9), the wastewater collected into the storage **tank**(10) is pumped by discharge motor pump(13) so that the pumped wastewater is supplied to **toilet** bowl **tank**(18) through discharge pipe(15), check **valve**(16) is installed on the discharge pipe(15), and water works pipe(17) is connected to the discharge pipe(15) so that ordinary potable water is supplied, the wastewater reclamation system is characterized in that the suction motor pump(5) is mounted on the tip of suction hose(6) arbitrarily movably installed on the supply pipe(9) so that the suction motor pump(5) is directly moved to the wastewater generator(19), filter unit(7) is installed in the supply pipe(9) to supply filtered wastewater to the storage **tank**(10) by filtering the wastewater supplied, sterilizing lamp(12) for sterilizing the wastewater filled in the storage **tank**(10) and **sensor** for regulating operation of the suction motor pump(5) by measuring the volume of wastewater filled in the storage **tank**(10) are installed at the storage **tank**(10), a **sensor** is installed at the **toilet** bowl **tank**(18) to regulate operation of the discharge motor pump(13) by sensing water filled in the **toilet** bowl **tank**(18), and respective sensors of the suction motor pump(5) and discharge motor pump(13), and

storage **tank**(10) and **toilet** bowl **tank**(18) are controlled in control box(3) equipped with an ordinary earth leakage circuit breaker(4).

[SS 2] (wash+ and machine) and recyl+ and /IC (E03B)

Results in EPODOC 0

[SS 3] (wash+ and machine)

Results in EPODOC 194.192

[SS 4] water 1d manag+

Results in EPODOC 8.254

[SS 5] 3 and 4

Results in EPODOC 22

[SS 6] ..li



1/22 © EPODOC / EPO

PN - [ES2705743](#) A1 20190326

PR - ES20180000094 20180411

AP - ES20180000094 20180411

DT - I

CT - || STSE (A1)

[WO2007141775](#) A2 20071213 [X] (CURVER LUXEMBOURG SARL [LU], et al)
[X] 1,2

* página 4, línea 20 - página 5, línea 24; figuras 1 - 2; reivindicación 11. *;

[EP1652462](#) A2 20060503 [X] (YOUNG RONALD ALEXANDER [GB])
[X] 1,2

* descripción; figuras 1 - 2. *;

[GB1520839](#) A 19780809 [Y] (SANCHEZ VAZQUEZ J)
[Y] 3,4

* página 1, línea 47 - página 3, línea 42; figura 1. *;

[ES2442440](#) A1 20140211 [A] (PRADO VELASCO DANIEL [ES])
[A] 1-4

* página 2, línea 26 - página 7, línea 8; figuras 1 - 6. *;

[ES2264371](#) A1 20061216 [A] (GINES RODRIGUEZ NOE [ES])
[A] 1-4

* columna 2, línea 34 - columna 4, línea 33; figuras 1 - 4. *;

[ES2264371](#) A1 20061216 [A] (GINES RODRIGUEZ NOE [ES])
[A] 1-4

* columna 2, línea 34 - columna 4, línea 33; figuras 1 - 4. *;

[CN206548459U](#) U 20171013 [A] (DIKAI TAICANG IND CO LTD)
[A] 1-4

* figuras 1 - 10.

&Resumen de la base de datos EPODOC (Recuperado de WPI AN 2017-715362).

*

- CI - A47L13/58 (ES)
- PA - GONZALEZVALENCIAJUAN [ES]
- TI - Scrubbing bucket with dirty water cleaning and recovery system (**Machine**-translation by Google Translate, not legally binding)
- AB - Scrubbing bucket with cleaning system and recovery of dirty water that has a bucket (1), with spout (3) on its lid edge (2) with hole for **washing** piston (8) and plug for closing loading orifice (20) # The rinsing devices are fed back with treated water and clean water from the clean water of the tank through the check valve (16) and drain with cellulose filter (11) for solid waste and lavasuelos tablet (12) for eliminate the dissolved fat in the dirty **water**, **manage** to do the scrubbing with always clean water and in this way really, clean and maintain the floors efficiently and safely. (**Machine**-translation by Google Translate, not legally binding)

2/22 © EPODOC / EPO

- PN - [CN207641641U](#) U 20180724
- PR - CN201721624098U 20171128
- AP - CN201721624098U 20171128
- DT - I
- CCA - [Y02W30/58](#)
- CA - Y02W30/58 (EP)
- PA - SHENZHEN WANJIASHENG ENVIRONMENTAL PROT INDUSTRY CO LTD
- TI - A water circulating system for construction waste processing
- AB - The utility model provides a water circulating system for construction waste processing, including the first pond that is used for sand **washing machine**, second pond and sand **washing machine**, a third pond and the 6th pond for storing mud, a cyclone for separating gravel and sand puddle, a first environmental protection bucket for separating mud, first sediment stuff pump and duo tai pressure filter, water circulating system still includes the clean water basin, the clean water basin is equipped with the pipeline and is connected to first pond respectively, the second pond, the third pond, the 6th pond, first environmental protection bucket and a plurality of pressure filter, the **water management** of a plurality of pressure filters separation is said and is flowed in in the clean water basin, the clean water basin is respectively to first pond, the second pond, sand **washing machine**, the third pond, the 6th pond and first environmental protection bucket supply water. Through the aforesaid setting, the cyclic utilization of realization water, the water economy resource, it is energy -concerning and environment -protective.

3/22 © EPODOC / EPO

- PN - [CN207240530U](#) U 20180417
- PR - CN20172177378U 20170826
- AP - CN20172177378U 20170826
- DT - I
- PA - ANLONG COUNTY XILAIYING BUILDING MAT DECORATION CO LTD
- TI - Stone material cutting process circulating water system
- AB - The utility model provides a stone material cutting process circulating water system, including conveyer belt, cutter, cutting **machine**, base, the conveyer belt is fixed in the base top, and the cutter is fixed in the cutting **machine** bottom and just to the

conveyer belt top, having water drainage tank on the base, and having a plurality of inclined planes on the base, water drainage tank lies in the lower curvate in inclined plane on the base, conveyer belt side is fixed with the side curtain, and just to there being the atomizer on the cutter operational site on the side curtain, the conveyer belt top is fixed with in cutter position rear and violently manages, and the shower nozzle is just to the cutter operational site in violently being equipped with on the pipe, and the atomizer feedthrough in violently **managing water** drainage tank communicates to the filter entry, and water pump export intercommunication is to violently managing, and filter, water storage box, water pump communicate in proper order. The utility model discloses a settings such as water drainage tank, well shower nozzle, filter, water storage box, water pump can directly be **washed** when the stone material cutting operation and removed dust to avoid the dust to the influence of environment, and the hydrologic cycle sets up rationally, can effectively reduce water resource consumption.

4/22 © EPODOC / EPO

- PN - [CN206747123U](#) U 20171215
- PR - CN201720599004U 20170525
- AP - CN201720599004U 20170525
- DT - I
- PA - SHENZHEN QIANHAI JINXIA TAXUS CHINENSIS ECOLOGICAL HEALTH CO LTD
- TI - Water conservation tealeaves and branch cleaning **machine**
- AB - The utility model discloses a water conservation tealeaves and branch cleaning **machine**, tealeaves and the branch cleaning **machine** of the having solved prior art problem of resource of relatively wasting water, its technical scheme main points are: which comprises a cleaning tank, the **washing** tank is including embathing groove and flushing canal, it is equipped with and **washes** the board to embathe the groove front end, it is equipped with the pipe that absorbs water that circulates to embathe the groove end, the circulation absorbs **water** and **manages** through the back flow and **wash** the board intercommunication, be equipped with high pressure water pump on the back flow, the flushing canal upper end is equipped with the pressure boost nest of tubes, the pressure boost nest of tubes with the back flow intercommunication, be equipped with the elevator pump in the flushing canal, the flushing canal upper end is equipped with **washing** terminals, **washing** terminals with the elevator pump intercommunication, it is equipped with the first conveyer belt that the slope set up to embathe the inslot, be equipped with the second conveyer belt in the flushing canal, the end of first conveyer belt is located directly over the second conveyer belt front end. Thereby has the advantage that the reuse water resource reaches the water conservation.

5/22 © EPODOC / EPO

- PN - [CN206289464U](#) U 20170630
- PR - CN201621397470U 20161220
- AP - CN201621397470U 20161220
- DT - I
- PA - ZHENGZHOU MUSEUM; UNIV ZHENGZHOU
- TI - Ultrasonic wave paper historical relics cleaning **machine**
- AB - The utility model aims at providing an ultrasonic wave paper historical relics cleaning **machine**, which comprises a bod, the air exhauster, the water tank, the pond, heater and water pump, the interior upper portion of organism is equipped

with the pond, the air exhauster is placed in on the interior bottom of organism, the air exhauster is linked together with the air outlet of U-shaped convulsions elbow through suction line, the air intake and the pond upper portion of U-shaped convulsions elbow are linked together, supersonic generator is equipped with in the pond, the upper mouth part in pond is equipped with filter plate, filter plate's periphery has the clamp plate, the equipartition has the spillway hole on the clamp plate, the **water tank management** is said and is linked together with the water pump, the water pump through the tee bend respectively with the water-circulating pipe way, the inlet channel in pond is linked together, the controller is equipped with on the bottom in the external organism of water tank, the utility model discloses novel structure is unique, easy installation production, and convenient to use can effectively be used for the **washing** of historical relic calligraphy and painting, and that guarantees the calligraphy and painting deposits and appreciates the effect, has good economy and social.

6/22 © EPODOC / EPO

- PN - [CN206252332U](#) U 20170616
- PR - CN20162136014U 20160827
- AP - CN20162136014U 20160827
- DT - I
- PA - NINGBO FENGYA ELECTRICAL APPLIANCES CO LTD
- TI - Coffee extracting **machine** convenient to **wash**
- AB - The utility model provides a coffee extracting **machine** convenient to **wash**, including upper cover (1), mill collection cup (2), organism (3), electromechanical (4), coffee cup (5). The utility model discloses a constitute the device by above-mentioned component, wherein, sword, collection grind the container of two unification functions of extraction in order to be equipped with soon to grind the collection cup, the organism is equipped with and grinds collection cup groove and water tank, is equipped with motor, electrothermal tube, U-shaped pipe, circuit board in the organism, the upper cover will grind collection cup and seal and connect in grinding collection cup groove, the motor through the shaft coupling with revolve the sword and be connected, revolve the coffee bean powder breakdown mill that the sword will grind in the collection cup and become the powder, the rivers of water tank are heated into hot water by the electrothermal tube when the U-shaped **manage**, hot **water** gets into through the upper cover and grinds the collection cup, hot water is followed coffee and is extracted out the coffee liquid that comes together in whitewashed, during the **washing**, taking out and grinding the collection cup, will grind with the running water that the collection cup rinses well can, adopt to grind collection cup collection grind the extraction as an organic whole, can with the organism separation abluent technical scheme of being convenient for, make coffee extracting **machine** reach and be convenient for **wash**, eliminate the purpose of leaking electrical safety hidden danger.

7/22 © EPODOC / EPO

- PN - [CN206043835U](#) U 20170329
- PR - CN20162124068U 20160831
- AP - CN20162124068U 20160831
- DT - I
- PA - ZHANGYUANXING
- TI - Anti-dazzle glass cleaning **machine** tuft brush belt cleaning device

AB - The utility model provides an anti -dazzle glass cleaning **machine** tuft brush belt cleaning device, relates to anti -dazzle glass cleaning. Be equipped with brush, scraper blade, spray pipe, pond, absorb water tub, water pump, filter, drainage recovery tube and water source, brush top is located to the scraper blade, in the pond is located to the pipe that absorbs water, inhales water tube outlet and connects the pump intake, and the filter is taken over to the water pump delivery port, and the drainage export of filter connects the entry of drainage recovery tube, and the export water receiving source of drainage recovery tube is equipped with the pore array that is used for adsorbing debris on the pipe that absorbs water. Owing to be equipped with scraper blade and spray pipe on the brush, consequently the water spray of usable scraper blade and spray pipe effectively **washes** the brush, and not only the cleaning performance is good, water conservation, convenient to use, equipment long service life moreover. Cross drainage accessible drainage recovery tube and retrieve the using water wisely. Be equipped with the pore array that is used for adsorbing debris owing to absorb water on the pipe, consequently can keep the adsorption who absorbs **water** and **manage**. Accessible hot water **washes** the brush, improves and **washes** efficiency. Can adjust the water level in pond.

8/22 © EPODOC / EPO

PN - [CN106283233](#) A 20170104

PNFP - CN106283233B B 20191008

PR - CN201610985116 20161031

AP - CN201610985116 20161031

DT - I

CT - || STSE (A)
[JPS61153154](#) A 19860711 [A] (TEIJIN LTD)
 [A] 1-10
 * 全文 *;
[CN202208791U](#) U 20120502 [A] (ZHONGHUI FIBRE CO LTD)
 [A] 1-10
 * 全文 *;
[CN102605449](#) A 20120725 [XY] (JIANGSU BAODE NEW MATERIAL CO LTD)
 [X] 1-10
 * 说明书第0012-0014段及附图1 *
 [Y] 1-10;
[CN102677200](#) A 20120919 [A] (SHANXI COAL CHEM INST)
 [A] 1-10
 * 全文 *;
[CN104005108](#) A 20140827 [A] (JIANGSU GUANGSHENG YUAN TECHNOLOGY DEV CO LTD)
 [A] 1-10
 * 全文 *;
[CN204608234U](#) U 20150902 [A] (ANHUI ANQIANG M&E PROJECT CO LTD)
 [A] 1-10
 * 全文 *;
[CN206143360U](#) U 20170503 [R] (HARBIN TIANSHUN CHEMICAL TECH DEV CO LTD)
 [R] 1-10
 * 权利要求1-10 *;
[CN204000382U](#) U 20141210 [Y] (NEW MINGHE MECHANICS RES AND DEV CO LTD)
 [Y] 1-10
 * 说明书0019-0026段及附图1-2 *

CI - D01D10/06 (CN)

PA - (A)
HARBIN TIANSHUN CHEMICAL TECH DEV CO LTD

TI - (A)
Snakelike tower-type **washing machine** for spinning

AB - (A)
The present invention discloses a snakelike tower type **washing machine** for spinning, which belongs to the technical field of spinning equipment. The snakelike tower type **washing machine** is composed of at least two **washing** tanks arranged in the vertical direction, a spraying device located at the upper part of the top **washing** tank, and driving rollers and a longitudinal fixing device, wherein the driving rollers are parallelly arranged at both ends of each **washing** tank. The length of the lower **washing** tank is greater than that of the upper **washing** tank and all the **washing** tanks are aligned along the center line parallel to the driving rollers, and all the **washing** tanks and the driving rollers are connected by the longitudinal fixing device; the bottom of one side of each **washing** tank is provided with a guide plate on which the cleaning fluid can be introduced into the next layer of the **washing** tank or ground. The spraying device can be fixed on the longitudinal fixing device or on a wall or **machine** housing. The **washing machine** has the advantages of saving **water**, easy **management** and small size.

9/22 © EPODOC / EPO

PN - [CN205554150U](#) U 20160907

PR - CN201620412119U 20160506

AP - CN201620412119U 20160506

DT - I

PA - WANG KAIXUN

TI - Sell **washing** car all -in -one

AB - The utility model discloses a sell **washing** car all -in -one, including selling water **machine**, carwash pipe, waste water bin, water pipe connects the water **machine** of selling, and the setting of waste water bin is selling water quick - witted below, sells the water **machine** and passes through useless water piping connection waste water bin, and bottom, the other end of the one end connection waste water bin of carwash pipe are installed on selling the water **machine**, are provided with the suction pump on the carwash pipe, and the upper portion of waste water bin is provided with the drain pipe, be provided with the controller in selling the water **machine**, controller linked network module, the control end connection director's of suction pump control port. Can realize the data transmission between sell **washing** car all -in -one and the network switchboard, the long -range collection of realization equipment data, the remote control of equipment through the network module. Sell the water **machine** and can sell the pure **water**, **manage** out waste water through the steerable carwash of controller control suction pump, realize self - service carwash.

10/22 © EPODOC / EPO

PN - [CN205288670U](#) U 20160608

PR - TW20150211545U 20150716

AP - CN201520673414U 20150901

DT - I

PA - SHANGSHI ENTPR CO LTD

TI - **Washing** device

AB - The utility model discloses a **washing** device, including the **washing machine** that the multi-stage is established ties, every **washing machine** includes conveyor, **washing** device and separator triplex. The principle that this equipment utilization multi-stage was **washed** against the current will many **washing machine** series connection operations, make **washes** abundant **washing** many times in this equipment. Air and **washing** liquid are respectively through mixing among the corresponding **washing** device of different pipeline inputs, by the **washes** also through wasing among the corresponding **washing** device of conveyor input, the **washing** back is left **washing** device via conveyor again through separator and is sent to another **washing machine**, the **washing** liquid also mixes produced mixing effect promotion potential energy via air and **washing** liquid in **washing** device, and can be not through the pumping pressurization, it flows toward another **washing machine** use to have enough **water** level **management** ways, the counter-current **washing** is carried out to the form of many **washing** machines series connection of mode from this, can low-cost detach effectively by the dirty and particle on **washes** surface, also can reach simultaneously the mesh of water conservation.

11/22 © EPODOC / EPO

PN - [CN205258905U](#) U 20160525

PR - CN201520999463U 20151204

AP - CN201520999463U 20151204

DT - I

PA - WUXI LITTLE SWAN CO LTD

TI - A laundry device that be used for **washing machine** absorb water subassembly with have it

AB - The utility model discloses a laundry device that be used for **washing machine** absorb water subassembly with have it, **washing machine's** the subassembly that absorbs water includes: suction pump, absorb water pipe and outlet pipe, wherein, the suction pump has into water end and play water end (W. E.) for the water end (W. E.) is sent out to the water pump of holding of will intaking, and it is effective in connecting the water source to absorb water, and the pipe that absorbs water is held with intaking of suction pump and is linked to each other, and the outlet pipe is used for connecting **washing machine**, and the outlet pipe is continuous with the play water end (W. E.) of suction pump. According to the utility model discloses a potential safety hazard that is used for **washing machine's** the subassembly that absorbs water, and it is connected to the water source with the suction pump to absorb **water** to **manage** through the utilization, not only can realize as the automatic effect of adding water of **washing machine**, can also realize that the water source and the water and electricity of suction pump separate, and avoid existing and leak electricity to improve the security and the reliability of the subassembly that absorbs water.

12/22 © EPODOC / EPO

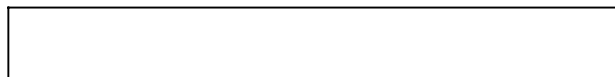
PN - [CN204747016U](#) U 20151111

PR - CN201520210078U 20150409

AP - CN201520210078U 20150409

DT - I

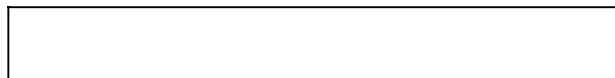
PA - TIANNENG BATTERY WUHU CO



- LTD
- TI - Sour cup belt cleaning device of acidification **machine**
- AB - The utility model provides a sour cup belt cleaning device of acidification **machine**, through going up in contact with first outlet pipe and second outlet pipe at pure water pipe, first water piping connection the header tank, and the first scavenge pipe of water collection tank connection can be **washed** through the water **-washed** of header tank filling up the header tank at leisure, does not occupy the pure **water** and **manages** the acidification built -in and add water, and first scavenge pipe is still being connected the second scavenge pipe and can be be simultaneously being **washd** the sour cup of both sides work, and when header tank water is not enough, still is provided with the first scavenge pipe of second outlet pipe lug connection and **washes**, and first scavenge pipe and second scavenge pipe have all wrapped the iron sheet and has hung and to hang on the magnetism link, very convenient and can not fall down everywhere, the utility model discloses simple structure easily operates, and sour cup is **washed** to original condition of utilizing that can be fine, and sour cup need not to pull down, is applicable to in the production.

13/22 © EPODOC / EPO

- PN - [CN103444297](#) A 20131218
- PNFP - CN103444297B B 20150826
- PR - CN201310379049 20130828
- AP - CN201310379049 20130828



DT	- I
CT	- STSE (A) CN1190530 A 00000000 [A]; CN103125237 A 00000000 [A]; CN1854244 A 00000000 [A]
CTNP	- STSE (A) [A] - 吴劲松, "大安市苏打盐碱地水田土壤施肥模型研究", 《安徽农业科学》, (20111231), vol. 39, no. 31
PA	- (A) TIANJIN STOCK SEED FARM
TI	- (A) Method for improving soil of saline-alkaline rice field by mechanical formula fertilization
AB	- (A) The invention relates to a method for improving the soil of a saline-alkaline rice field by mechanical formula fertilization. The method comprises the following steps: (1) preparing a fertilization amount with a formula; (2) fertilizing at a period with a method; (3) flattening soil; (4) applying a fertilization mode and controlling a tillage depth; (5) arranging a screen filter tank; (6) setting an interval between tillage and irrigation salt washing ; (7) managing a water layer. The method has the characteristics of time saving, labor saving, fertilizer saving and money saving. As fertilization is changed from a mode of manually fertilizing the rice field for multiple times into a mode of fertilizing by a machine in a dry land before tillage, the heavy work of traditional manual fertilization is greatly reduced by the method. The method also has the advantages that the loss of a

fertilizer in the conversion process of dissolving the fertilizer in water until the fertilizer is absorbed by the soil in a traditional fertilization method is also reduced, and a relative NKP fertilizer formula is used according to the PH value of the soil and the features of varieties to avoid blind fertilization; income and efficacy are increased, the utilization rate of the fertilizer is increased, the production cost is lowered, and the application effect is extremely remarkable.

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PN - [CN203117741U](#) U 20130807

PR - CN20132009587U 20130109

AP - CN20132009587U 20130109

DT - I

CCA - [Y02P90/02](#)

CA - Y02P90/02 (EP)

PA - TAIZHOUSHENDAMACHINERY
MFG CO LTD

TI - Intelligent **washing** and
dewatering **machine**

AB - The utility model discloses an
intelligent **washing** and
dewatering **machine**, which
comprises a **washing** and
dewatering **machine** body, a
control system and a
water/steam control pipeline,
wherein the control system
comprises an integrated
circuit board, program
software, a sensor and a
remote control device which
are arranged in the **washing**
and dewatering **machine**
body; the integrated circuit
board is controlled by a
personal computer (PC);
the **washing** and
dewatering **machine** body and
the remote control device are
internally provided with



corresponding signal receivers respectively; the water/steam control pipeline comprises a pipeline used for delivering water/steam and a control valve connected in the pipeline, and the control valve is a pneumatic valve; and the water/steam control pipeline can be remotely controlled by the remote control device. The intelligent **washing** and dewatering **machine** is operated conveniently and comfortably, and an operator can simultaneously manipulate multiple **washing** and dewatering machines with ease, thereby being high in work efficiency; and the water/steam control pipeline leaks little, and is convenient for centralized **management** of **water** and steam.

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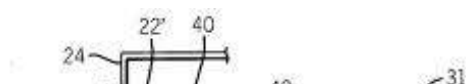
PN - [CN202803117U](#) U 20130320
 PR - CN201220477590U 20120919
 AP - CN201220477590U 20120919
 DT - I
 PA - NINGBO FOUNTAIN WATER TECHNOLOGY CO LTD
 TI - Automatic manager for reverse osmosis water **machine**
 AB - The utility model discloses an automatic manager for a reverse osmosis water **machine**. The automatic manager comprises a TDS (Total Dissolved Solids) detecting unit (1), a valve control unit (2) and a central control unit (3), wherein the TDS detecting unit (1) is used for detecting the TDS value of waste water; the valve control unit (2) is used for controlling the switching on and switching off of a wastewater proportioning valve and



a **washing** electromagnetic valve; and the central control unit (3) is used for receiving a signal of the TDS value detected by the TDS detecting unit (1), and outputting the signal to the valve control unit (2) according to the TDS value so as to control the switching on and switching off of the wastewater proportioning valve or the **washing** electromagnetic valve. When a reverse osmosis system is used for deeply treating municipal tap **water**, the **manager** disclosed by the utility model utilizes the multi-cycle circulation of wastewater to produce pure water as good as possible by a reverse osmosis filter, realizes the automatic **washing** of a reverse osmosis film, and protects the reverse osmosis film and prolongs the service life of the reverse osmosis film. The automatic manager can well manage the existing reverse osmosis water **machine** and has the advantages of low cost, energy saving, environmental protection, convenience in operation, accurate data, man-**machine** interaction and the like.

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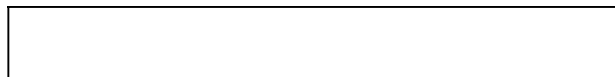
PN - [US2009120135](#) A1 20090514
 PNFP - US7946139 B2 20110524
 PR - US20080212200
 20080917; US20070987956P
 20071114
 AP - US20080212200 20080917
 DT - *; Rep
 CT - || R141 (A1)
[US4428088](#) A 00000000 [];
[US2888531](#) A 00000000 [];
[US6935142](#) B2 00000000 [];
[US5671135](#) A 00000000 [];



[US2008308643](#) A1 00000000
 []
 - || STSE (B2)
[US2888531](#) A 00000000 [];
[US4428088](#) A 00000000 [];
[US5671135](#) A 00000000 [];
[US6935142](#) B2 00000000 [];
[US2008308643](#) A1 00000000
 [];
[GB2236332](#) A 00000000 [];
[JPH10277289](#) A 00000000 []
 CCI - [D06F35/006](#) ; [D06F39/08](#)
 CI - D06F35/006 (EP)
 - D06F39/08 (EP)
 PA - (B2)
 ILLINOIS TOOL WORKS [US]
 TI - (A1)
 METHOD AND APPARATUS FOR
 UPGRADING **WASHING**
MACHINE WATER EFFICIENCY
 - (B2)
 Method and apparatus for
 upgrading **washing machine**
 water efficiency
 AB - (A1 B2)
 A water level control for
 a **washing machine** provides
 an integrated unit that may
 replace standard mechanical
 water level controls with a
 microprocessor-based circuit
 that may provide for more
 sophisticated **water**
management in a
 standard **washing machine**
 using a non-microprocessor
 cycle timer.

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PN - [US2008236400](#) A1 20081002
 PNFP - US8100049 B2 20120124
 PR - IT2005VE00005
 20050127; WO2006EP00592
 20060124
 AP - US20060795947 20060124
 DT - **
 CT - || R141 (A1)
[US3718044](#) A 19730227 []
 (JOYCE J, et al);
[US6107924](#) A 20000822 []



	] (KASAI EIJI [JP], et al); US5072660 A 19911217 [] (HELBLING EDWARD [US])
	- STSE (B2) US3718044 A 19730227 [] (JOYCE J, et al); US5072660 A 19911217 [] (HELBLING EDWARD [US]); US6107924 A 20000822 [] (KASAI EIJI [JP], et al)
CTNP	- STSE (B2) [] - Machine Translation of - DE 44 46 731.
CCI	- A47J31/469 ; A47J31/605
CCA	- C02F1/008 ; C02F1/42 ; C02F2209/01 ; C02F2209/055 ; C02F2209/40
CI	- A47J31/469 (EP, US) - A47J31/605 (EP, US)
CA	- C02F1/008 (EP, US) - C02F1/42 (EP, US) - C02F2209/01 (EP, US) - C02F2209/055 (EP, US) - C02F2209/40 (EP, US)
PA	- (B2) - FREGNANANDREA[IT]; - ELEKTRA S R L [IT]
TI	- (A1) - Method for Controlling - and Managingthe Water Flow - to a Coffee Machine Provided - with a Water Softener Device - of Ion Exchange Resin Type, - and Coffee Machine for - Implementing the Method - (B2) - Method for controlling - and managingthe water flow - to a coffee machine provided - with a water softener device - of ion exchange resin type, - and coffee machine for - implementing the method
AB	- (A1 B2) - A method for controlling - and managingthe water flow - to a coffee machine provided - with an ion exchange water - softener device, characterised - by: determining, on the basis

of the hardness of the mains water and the type of resins, the maximum volume of water treatable by said resins before saturated, feeding mains water to the coffee **machine** through said water softener device while measuring said water flow, the value of which is compared with the maximum treatable water volume, and on noting that the water volume which has passed through said water softener corresponds to the memorized maximum treatable water volume, directly feeding the mains water to the coffee **machine** while by-passing said water softener device, and in the meantime, regenerating the resins with brine and **washing** said resins on termination of said regeneration, and finally, again feeding water to the **machine** via said water softener device.

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- PN - [US5496468](#) A 19960305
- PR - US19940235333
19940429; CA19942122165
19940426
- AP - US19940235333 19940429
- DT - *; Rep
- CT - || STSE (A)
[US326500](#) A 00000000 [];
[US2405838](#) A 00000000 [];
[US2442818](#) A 00000000 [];
[US3318449](#) A 00000000 [];
[US3543294](#) A 00000000 [];
[US4017395](#) A 00000000 [];
[US4162218](#) A 00000000 [];
[US4228006](#) A 00000000 [];
[US5037548](#) A 00000000 [];
[US5106496](#) A 00000000 [];
[FR806887](#) A 00000000 [];
[DE3932022](#) A1 00000000 []
- CCI - [B01D29/33](#) ; [B01D29/58](#) ;
[B01D29/605](#) ; [B01D29/606](#) ;



	<u>B01D35/26 ; E03B1/04</u>
CCA	- <u>B01D2201/188</u> ; <u>E03B2001/045</u> ; <u>Y02A20/148</u>
CI	- B01D29/33 (EP) - B01D29/58 (EP) - B01D29/605 (EP) - B01D29/606 (EP) - B01D35/26 (EP) - E03B1/04 (EP)
CA	- B01D2201/188 (EP) - E03B2001/045 (EP) - Y02A20/148 (EP)
TI	- Waste water management system with an auxiliary reservoir
AB	- The system consists of a buffer reservoir, which is filled by gravity through a recuperation line which connects domestic appliances producing grey water, like the bathtub, the shower, the washing machine , etc. A multiple concentric elements is integrated in the reservoir and a pump draws the water from the center element of the filter for forwarding to a toilet reservoir, when the latter needs to be filled. The water filter allows the successive retention of finer and finer particles, throws them through a porous top of the filter by using the hydraulic pressure inside the filter to decompose and recirculate debris in and out of the filter while reducing at the same time the accumulation of waste in the reservoir and the frequency of cleanings. The reservoir is also equipped with a line that replenishes fresh water when the amount of grey water in the reservoir is insufficient after filling the toilet reservoir at the time of solicitation and an overflow line to evacuate the water

surplus of the reservoir
toward a sewer.

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- PN - [JP2005177055](#) A 20050707
- PR - JP20030420543 20031218
- AP - JP20030420543 20031218
- DT - I
- FI - D06F35/00&A; D06F93/00;
D06F95/00; G06F17/60&124;
G06F17/60&332;
G06K19/00&A;
G06K19/06&028; G06Q30/04;
G06Q30/06&100;
G06Q50/00; G06Q50/10
- FT - 3B155/CD06; 3B155/MA02;
3B155/MA03; 3B155/MA08;
3B168/AC22; 3B168/AD01;
3B168/AD06; 3B168/AE01;
3B168/AE04; 3B168/AE05;
3B168/BA41; 3B168/BA91;
3B168/FA01; 3B168/FA06;
3B168/FA12; 3B168/FA14;
3B168/WA03; 5B035/BA03;
5B035/BB01; 5L049/BB11;
5L049/CC11
- PA - NANKYU IRYO KK
- TI - **WASHING** NET, CLEANING
MANAGEMENT SYSTEM
OF **WASHING** NET, AND
CLEANING METHOD
FOR **WASHING** NET
- AB - PROBLEM TO BE SOLVED: To
make it possible to easily
perform a
cleaning **management**
for **water washable** laundry,
by displaying only the
identification information on
customers onto **washing** net.
- SOLUTION: The **washing** net 15
is provided with a display
part 18 of customer
identification information,
and an identifying label 20,
on which bar code containing
customer identification
information is printed, is heat
welded on the display part 18
of the **washing** net 15. After
water **washable** laundry A is



put in the **washing** net 15,
 and **washed** in a **washing**
machine, the **washed washing**
 net 15 is dried in a
 dryer **machine**. After laundry
 A is taken out from
 the **washing** net 15 and
 folded, the dry weight of the
 laundry A is measured for
 recording with an electronic
 weight meter. Laundry A is
 stored in the **washing** net 15
 again for delivery. The
 measured dry weight is
 converted into a chargeable
 amount, and the bill is issued
 to the customer.

- COPYRIGHT: (C)2005,
 JPO&NCIPI

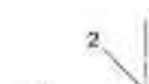
20/22 © EPODOC / EPO

PN - [JPH05182074](#) A 19930723
 PR - JP19910359831 19911227
 AP - JP19910359831 19911227
 DT - I
 FI - B65D81/22; G07F17/00&Z
 FT - 3E048/AA10; 3E048/BA01;
 3E048/BA06; 3E067/AA11;
 3E067/AB90; 3E067/AC04;
 3E067/BA09A; 3E067/BC06A;
 3E067/CA10; 3E067/FA01;
 3E067/FC03; 3E067/FC04;
 3E067/GA23
 PA - HOKUTO KOGYO KK
 TI - VENDING **MACHINE** OF
 FLOWER
 AB - PURPOSE:To surely **manage**
 the **water** of cut flowers and
 prevent them from being
 damaged by containing the
 cut flowers in the respective
 containing segments of a
 container installed in a box,
 moving the container to make
 the flowers to continuously
 appear to the output port of
 the box and setting the
 bottom part of the container
 to be a water tank.
 CONSTITUTION:When a
 product selection switch is



turned on, a moving device is operated to move the container 3, the containing segments containing the flowers appear to the output port one by one so that it becomes possible to fetch the cut flowers. As the lower part of the cut flowers is always in the state of soaking in storage water, the cut flowers are supplied with enough water. Consequently, the contained cut flowers do not wither before sales. Besides. when the container 3 is installed in the box in the state of inclining upward in a front direction, the flower part of the cut flowers can be seen well from the transparent part. Furthermore, a half nut, etc., are used as a nut component 37 so that the container 3 can easily be removed from the box at the time of **washing** the water tank, etc.

- 21/22** © EPODOC / EPO
- PN - [WO2006079500](#) A1 20060803
- PR - IT2005VE00005 20050127
- AP - WO2006EP00592 20060124
- DT - *; Rep
- CT - |EP| ISR (A1)
[DE4446731](#) A1 19960627
 [X] (MIELE & CIE [DE])
 [X] 1-20
 * the whole document *;
[GB496768](#) A 19381206
 [A] (FREDERICK HAROLD HODGKISON)
 [A] 1-20
 * the whole document *;
[EP0749720](#) A1 19961227
 [A] (WHIRLPOOL EUROP [NL])
 [A] 1-20
 * the whole document *;
[DE4422143](#) A1 19960104
 [A] (AWECO KUNSTSTOFFTECH GERAETE [DE])
 [A] 1-20



	* the whole document *
CCI	- A47J31/469 ; A47J31/605
CCA	- C02F1/008 ; C02F1/42 ; C02F2209/01 ; C02F2209/055 ; C02F2209/40
CI	- A47J31/469 (EP, US) - A47J31/605 (EP, US)
CA	- C02F1/008 (EP, US) - C02F1/42 (EP, US) - C02F2209/01 (EP, US) - C02F2209/055 (EP, US) - C02F2209/40 (EP, US)
PA	- ELEKTRA S R L [IT]; FREGNAN ANDREA [IT]
TI	- METHOD FOR CONTROLLING AND MANAGING THE WATER FLOW TO A COFFEE MACHINE PROVIDED WITH A WATER SOFTENER DEVICE OF ION EXCHANGE RESIN TYPE, AND COFFEE MACHINE FOR IMPLEMENTING THE METHOD
AB	- A method for controlling and managing the water flow to a coffee machine provided with an ion exchange water softener device, characterised by: determining, on the basis of the hardness of the mains water and the type of resins, the maximum volume of water treatable by said resins before saturated, feeding mains water to the coffee machine through said water softener device while measuring said water flow, the value of which is compared with the maximum treatable water volume, and on noting that the water volume which has passed through said water softener corresponds to the memorized maximum treatable water volume, directly feeding the mains water to the coffee machine while by-passing said water softener device, and in the

meantime, regenerating the resins with brine and **washing** said resins on termination of said regeneration, and finally, again feeding water to the **machine** via said water softener device.

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PN - [CN101111179](#) A 20080123

PNFP - CN101111179B B 20110309

PR - WO2006EP00592
20060124; IT2005VE00005
20050127

AP - CN20068003353 20060124

DT - I

CCI - [A47J31/469](#) ; [A47J31/605](#)

CCA - [C02F1/008](#) ; [C02F1/42](#) ;
[C02F2209/01](#) ;
[C02F2209/055](#) ;
[C02F2209/40](#)

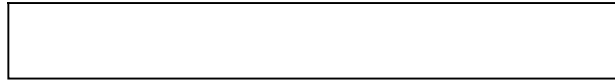
CI - A47J31/469 (EP, US)
- A47J31/605 (EP, US)

CA - C02F1/008 (EP, US)
- C02F1/42 (EP, US)
- C02F2209/01 (EP, US)
- C02F2209/055 (EP, US)
- C02F2209/40 (EP, US)

PA - (A)
ELEKTRA S R L [IT]
- (B)
ELEKTRA S R L

TI - (A B)
Method for controlling
and **managing** the **water** flow
to a coffee **machine** provided
with a water softener device
of ion exchange resin type,
and coffee **machine** for
implementing the method

AB - (B)
A method for controlling
and **managing** the **water** flow
to a coffee **machine** provided
with an ion exchange water
softener device, characterised
by: determining, on the basis
of the hardness of the mains
water and the type of resins,
the maximum volume of water



treatable by said resins
before saturated, feeding
mains water to the
coffee **machine** through said
water softener device while
measuring said water flow,
the value of which is
compared with the maximum
treatable water volume, and
on noting that the water
volume which has passed
through said water softener
corresponds to the
memorized
maximumtreatable water
volume, directly feeding the
mains water to the
coffee **machine** while by-
passing said water softener
device, and in the meantime,
regenerating the resins with
brine and **washing** said resins
on termination of said
regeneration, and finally,
again feeding water to
the **machine** via said water
softener device.