

Search strategy

Query

(SEWAGE AND WATER AND TANK AND TOILET AND PUMP AND LEVEL AND SENSOR AND FILTER AND WASHING AND MACHINE)

25 Documents

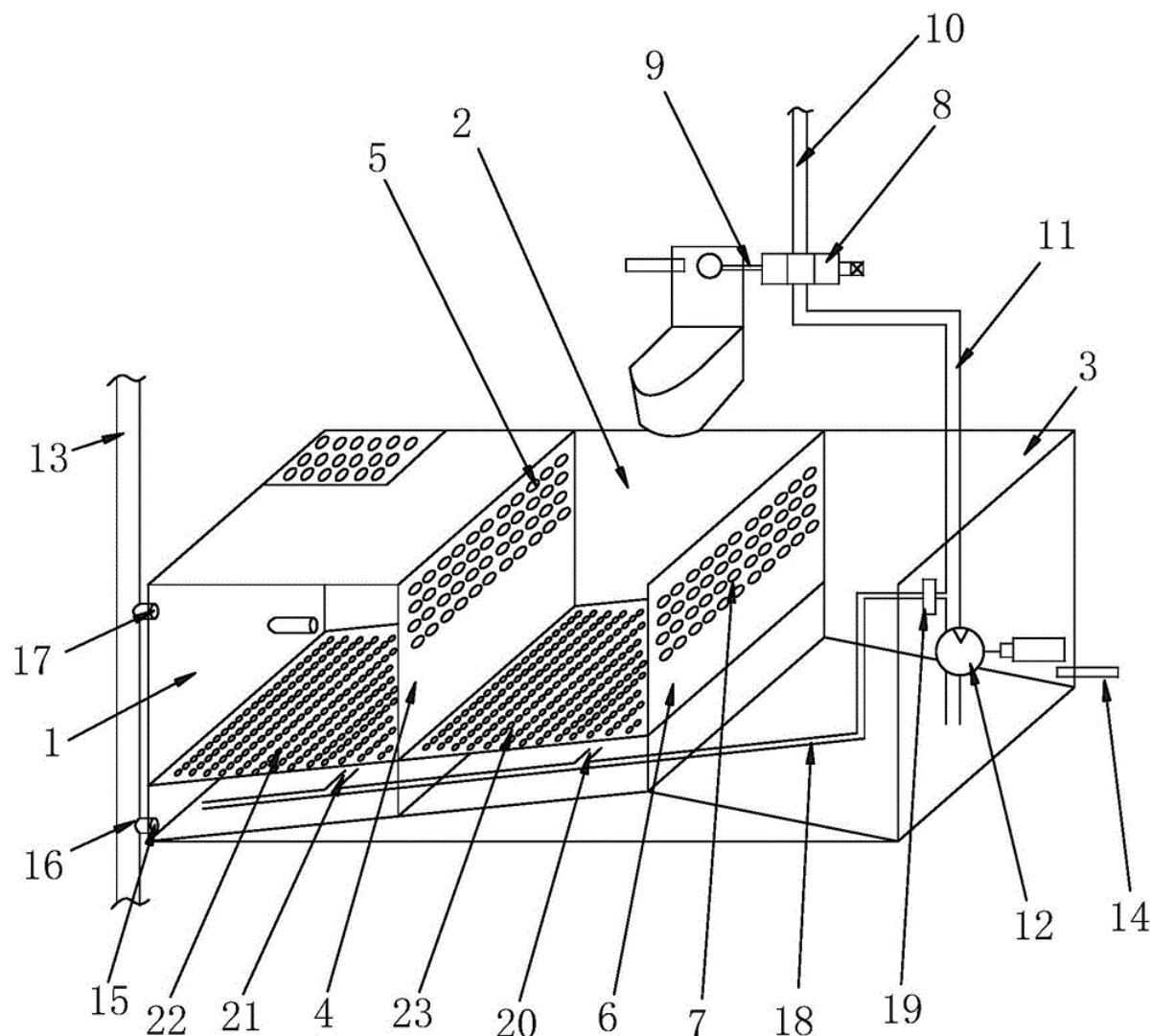
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CN207468354U U	Waste water cyclic utilization device for washing machine	YAO LIN
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		COLLEGE
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CN205833695U U	Duck's egg belt cleaning device is used in duck's egg processing	NANCHANG TEYONG INDUSTRIAL
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CN104295448 A	All-weather clean energy comprehensive electricity generating and energy saving method and facility manufacturing method thereof	ZHANG MENGLU

Family 1/25 - FAMPAT - ©Questel

Title

(CN110029700)

Intelligent household **sewage** treatment circulation device for **toilet** caisson**Images****Publication numbers with kind code & date**

CN110029700

A

2019-07-19

CN110029700

**Abstract**

(CN110029700)

The invention relates to the technical field of household **sewage** treatment, in particular to an intelligent household **sewage** treatment circulation device for a **toilet** caisson. The intelligent household **sewage** treatment circulation device comprises a coarse **filter** pool, a fine **filter** pool and a **water** storage **tank**, and the intelligent household **sewage** treatment circulation device further comprises an electromagnetic reversing valve, a closetool **water** pipe, a tape **water** pipe, a **water** outlet pipe, a **water** pump, a sewer pipe and a **water** level **sensor**, wherein the **water** level **sensor** is installed in the **water** storage **tank**, the **water** outlet pipe protrudes into the bottom in the **water** storage **tank**, one end of the **water** outlet pipe is connected with the **water** pump, and the **water** outlet pipe, the closetool **water** pipe and the tape **water** pipe are connected with the electromagnetic reversing valve correspondingly. The intelligent household **sewage** treatment circulation device is novel and simple in structure, can **filter** and purify **sewage**, can be used for flushing of a **toilet**, saves resources effectively, facilitates recycling of **water** sources, is environmentally friendly, can be matched with tapwater input to use different **water** sources according to different situations, ensures the normal use of closetool flushing, achieves an intelligent effect and is convenient to use.

Inventors

ZHENG CHONGLIN

JIANG WUJI

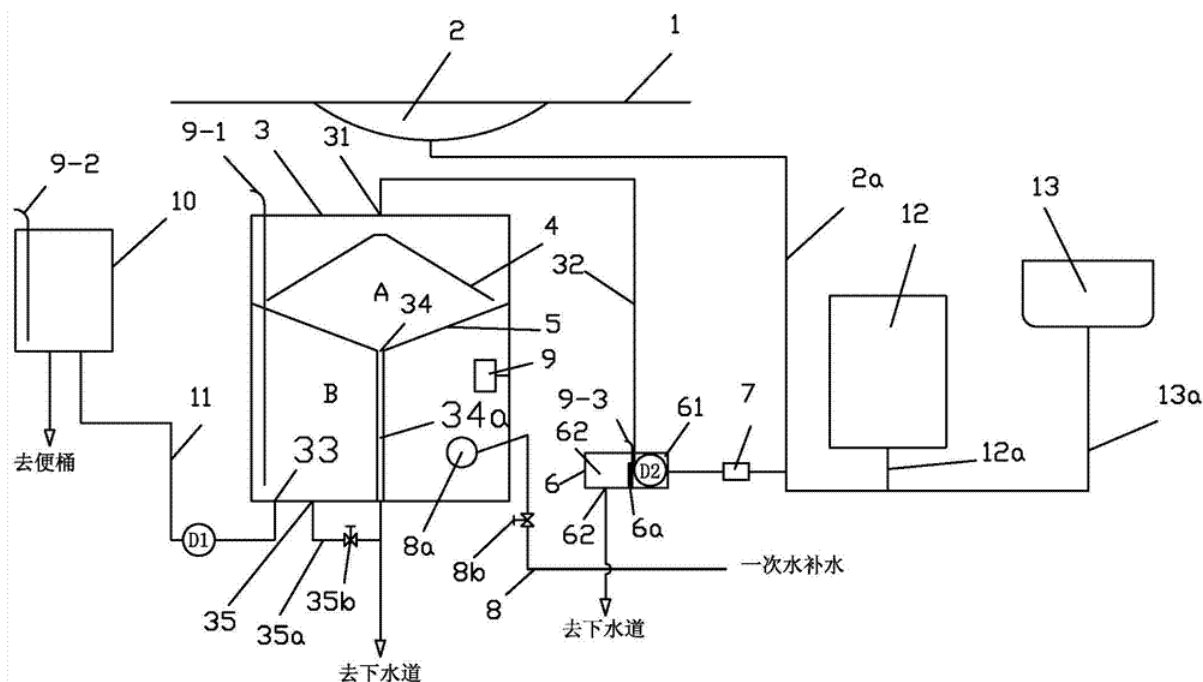
Latest standardized assignees - inventors removed

ZHONGSHAN POLYTECHNIC

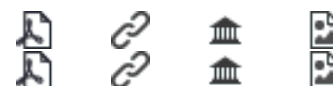
Family 2/25 - FAMPAT - ©Questel

Title

(CN105297843)

Household **water**-saving **machine** and filtration apparatus in household **water**-saving **machine****Images****Publication numbers with kind code & date**

CN105297843	B	2018-03-30	CN105297843B
CN105297843	A	2016-02-03	CN105297843

**Abstract**

(CN105297843)

The present invention provides a household **water**-saving **machine**, which comprises a **water** collection **tank**, wherein the top portion **water** inlet is connected to a secondary **water** inlet pipeline, the secondary **water** inlet pipeline can be connected to a kitchen pool, a **washing machine** and the drainage channel of a **washing** basin, a filtration screen is arranged inside a **water** collection device, the space inside the **water** collection device is divided into a filtration space and a **water** collection space, the **water** collection space is provided with a secondary **water** discharge port, the secondary **water** discharge port is connected to a secondary **water** conveying pipe so as to be communicated to a **toilet washing water tank**, the secondary **water** conveying pipeline is provided with a secondary **water** conveying **pump**, the secondary **water** conveying **pump** is controlled by a liquid **level sensor** in the **toilet washing water tank**, the filtration screen is obliquely arranged from top to bottom, a **water** distribution cover is arranged above the filtration screen to separate the **water** inlet and the filtration screen, the gap is arranged between the lower end edge of the **water** distribution cover and the upper end new surface of the filtration screen, and the lowest position of the obliquely arranged filtration screen is provided with an overflow port. The present invention further provides a filtration apparatus in the **water**-saving **machine**. With the household **water**-saving **machine** and the filtration apparatus of the present invention, the problem that the filtration screen in the **water** collection **tank** is difficult to clean after the secondary **water** is filtered in the **water** collection **tank** is solved.

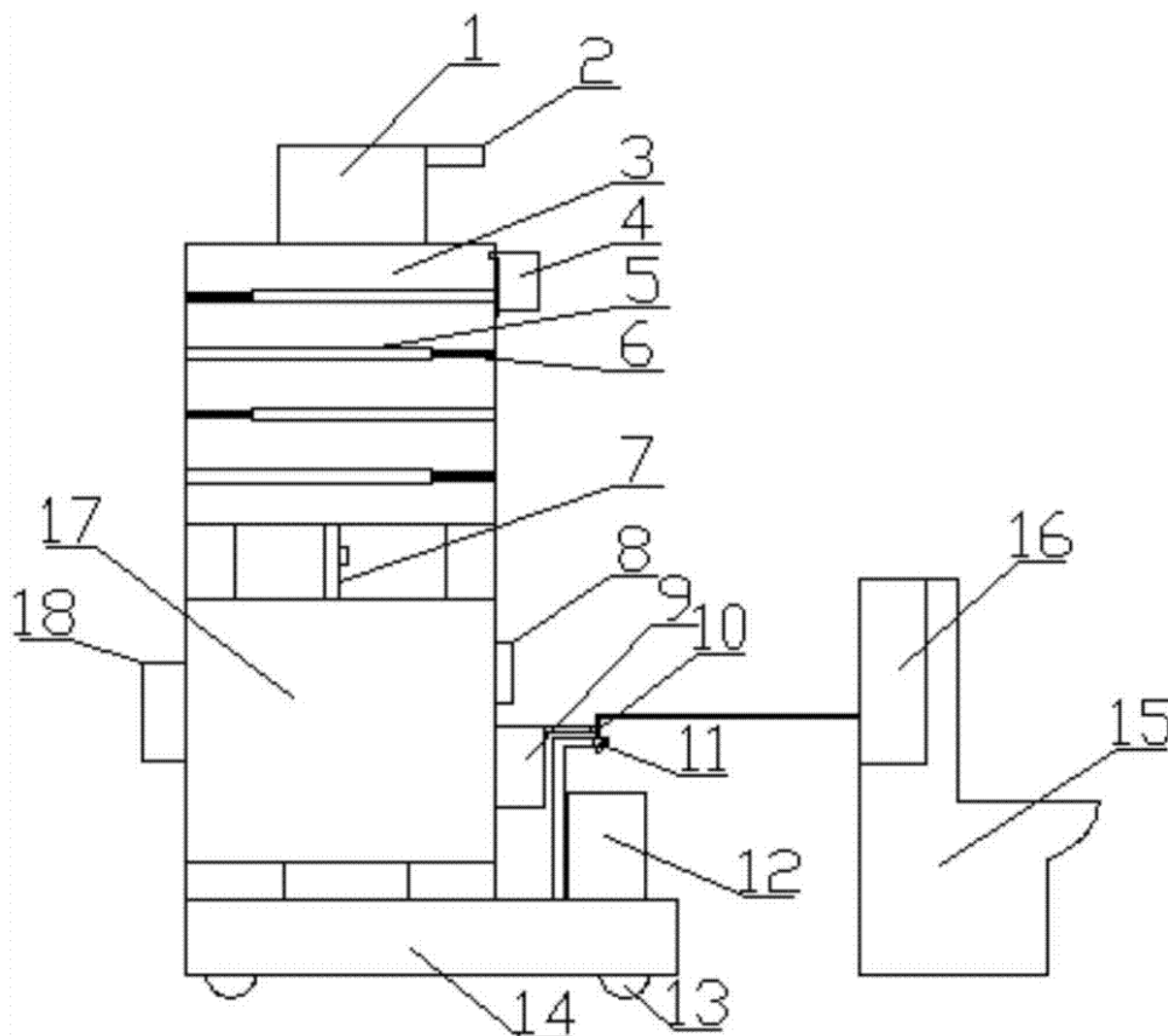
Inventors

ZHOU SHU

Family 3/25 - FAMPAT - ©Questel

Title

(CN207468354U)

Waste **water** cyclic utilization device for **washing machine****Images****Publication numbers with kind code & date**

CN207468354

U

2018-06-08

CN207468354U

**Abstract**

(CN207468354)

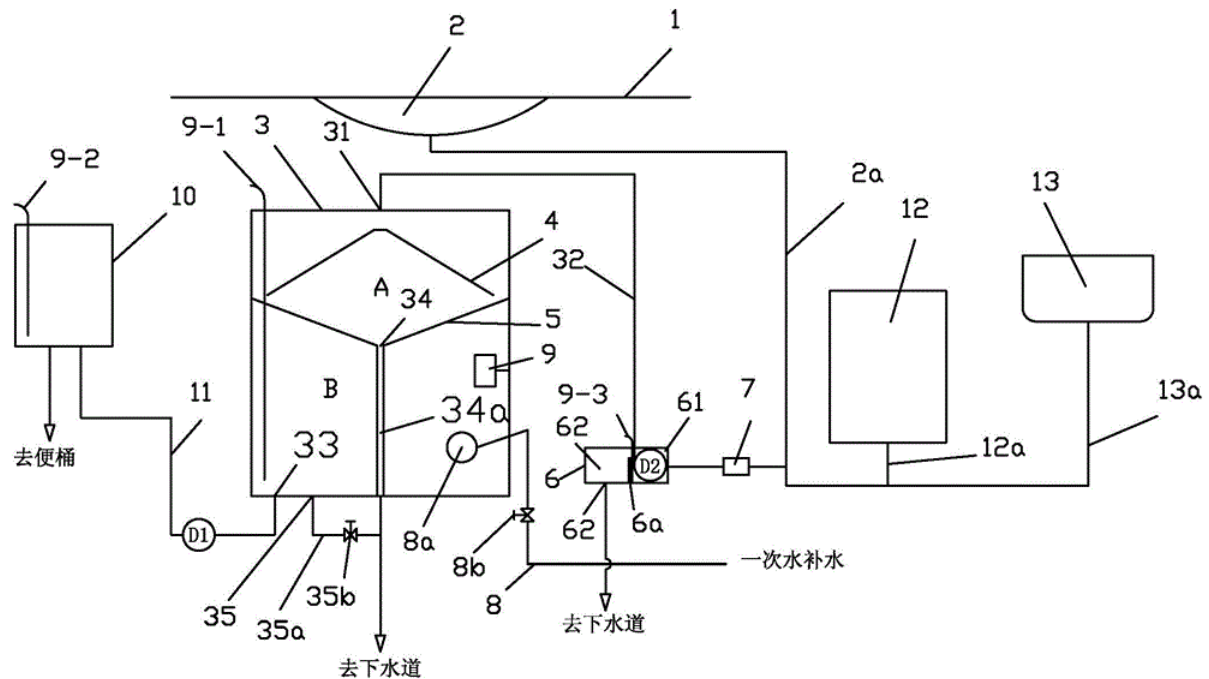
The utility model discloses a waste **water** cyclic utilization device for **washing machine**, including **filter**, the case that disinfects, mop **washing tank**, base, closestool body and **water** storage box, the top of base is provided with the **water** storage box, one side of **water** storage box is provided with the electric power storage box, the opposite side of **water** storage box is provided with **level** sensor and force **pump**, the force **pump** passes through the fixing base to be fixed on the **water** storage box, the three-way pipe is connected to the play **water** end (W. E.) of force **pump**, tap is connected to three-way pipe one end, tap's lower extreme is provided with the mop **washing tank**, the other end of three-way pipe leads to pipe to be connected on the **toilet tank** of closestool body, the top of **water** storage box is provided with the case that disinfects, it all is provided with drain board to disinfect the incasement both sides, and the active carbon filtration net of drain board one end fixed connection. The utility model discloses introduce in **toilet tank** and the mop **washing tank** behind the waste **water** filtration purification that discharges **washing machine** for the **water** resource can make full use of, and is energy -concerning and environment -protective.

Inventors

YAO LIN

YANG YULEI

Images



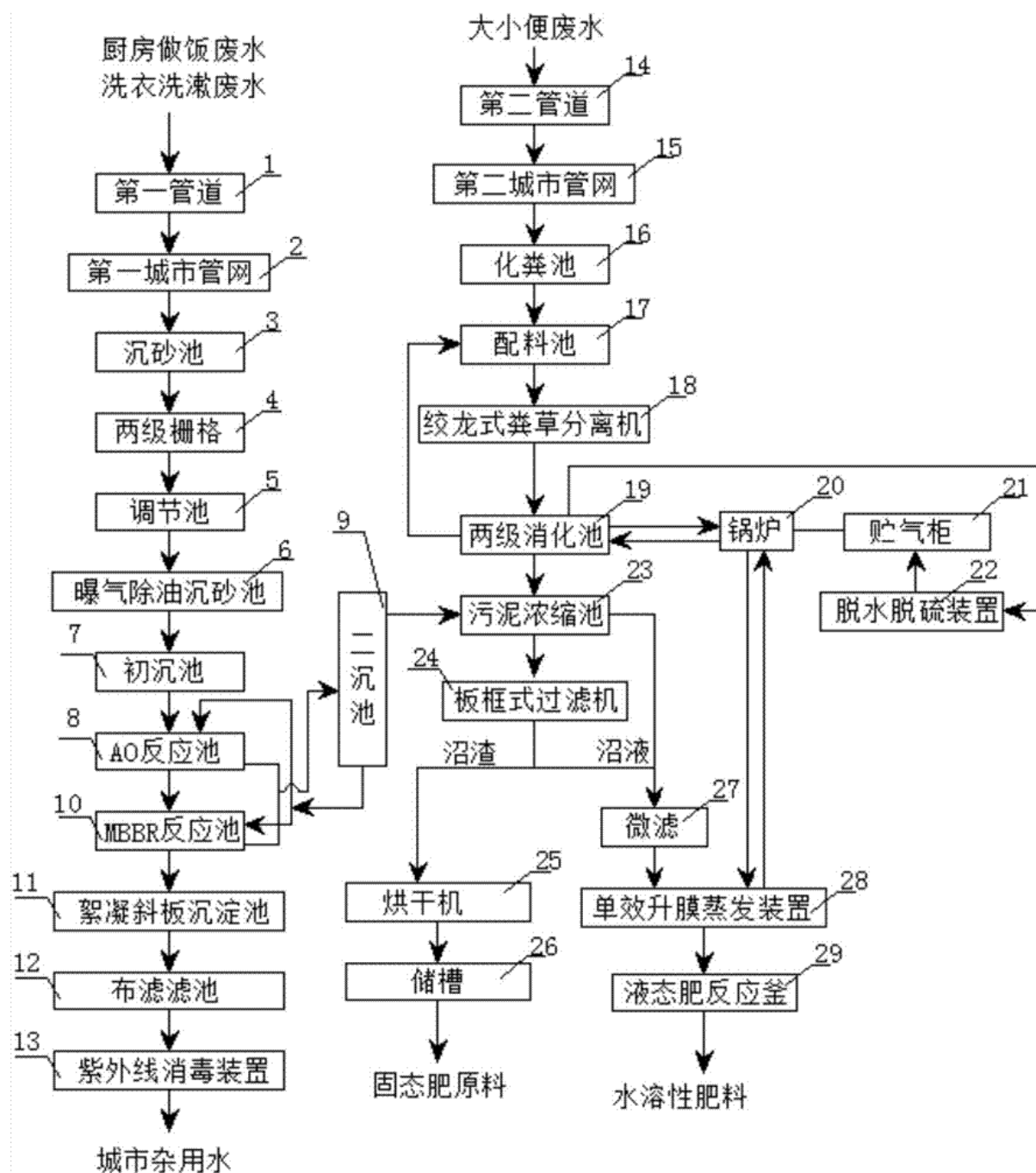
ZHOU SHU

Title

(CN107055971)

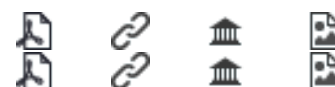
Recycling treatment method for urban domestic **sewage**

Images



Publication numbers with kind code & date

CN107055971	B	2018-01-19	CN107055971B
CN107055971	A	2017-08-18	CN107055971



Abstract

(CN107055971)

The invention discloses a recycling treatment method for urban domestic **sewage**. On the basis of original domestic **sewage** treatment equipment, diffluent disposal is conducted on kitchen waste **water**, **washing** and bathing waste **water** and **toilet** waste **water**; the kitchen waste **water** and the **washing** and bathing waste **water** are subjected to biochemical treatment, and the **toilet** waste **water** is subjected to biofermentation. The **toilet** waste **water** is turned into useful biogas, organic fertilizer and breeding bait which are high in added value through methane fermentation, resource processing of the waste **water** is achieved, the considerable economic benefit is generated, greenhouse gas emission is reduced, and the

sewage operation cost is lowered; the kitchen waste **water** and the **washing** and bathing waste **water** are subjected to a biochemical treatment technology reconstructed on the basis of the original **sewage** treatment technology, the effluent quality is better, the treatment cost is reduced, and the **water** resource is recycled; by adopting **water** soluble fertilizer prepared through biogas slurry, comprehensive nutrient elements can be provided for plants, the solubility of the fertilizer is good, and absorption is easy.

Inventors

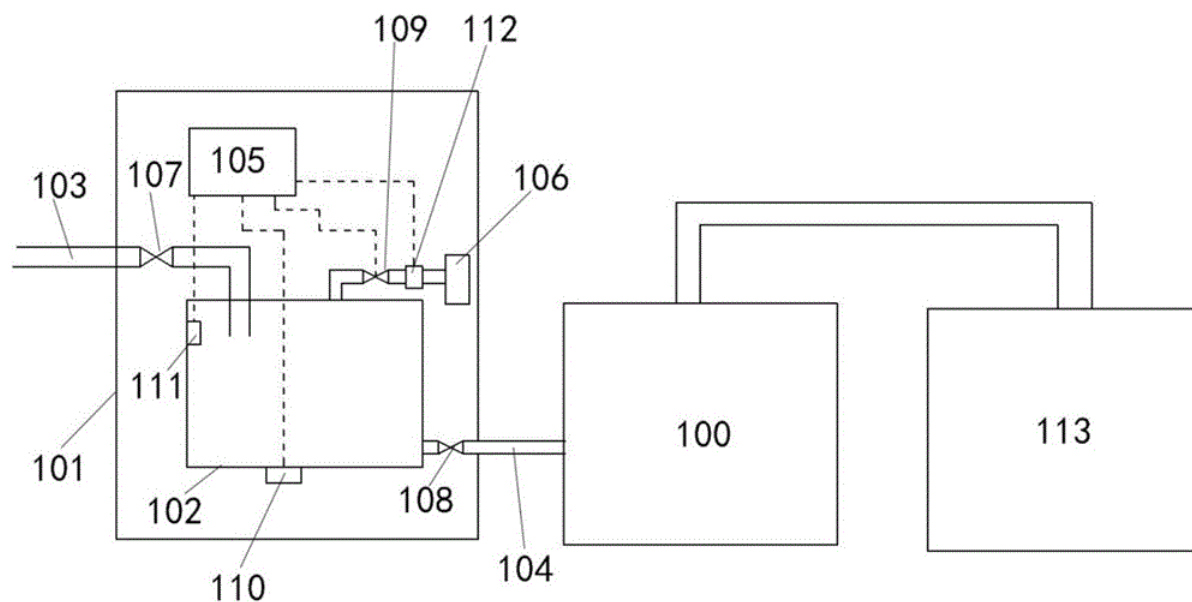
ZHANG BAOSHUANG

Family 6/25 - FAMPAT - ©Questel

Title

(CN106676839)

Intelligent washing machine system

Images**Publication numbers with kind code & date**

CN106676839	B	2019-06-25	CN106676839B
CN106676839	A	2017-05-17	CN106676839

**Abstract**

(CN106676839)

Disclosed is an intelligent washing machine system. The intelligent washing machine system is characterized by comprising a washing machine shell, a washing drum, a water inlet pipe, a water outlet pipe, a controller, a laundry detergent storage box and a wastewater treatment device, wherein the washing drum is arranged in the washing machine shell, the water inlet pipe and the water outlet pipe are communicated with the washing drum and are provided with a water inlet valve and a water outlet valve respectively, and the laundry detergent storage box is arranged above the washing drum and is communicated with the washing drum through a laundry detergent electromagnetic valve. A flowmeter is arranged between the laundry detergent electromagnetic valve and the laundry detergent storage box, a weight sensor is arranged at the bottom of the washing drum, a liquid level sensor is arranged on the sidewall of the washing drum, the controller receives feedback of the liquid level sensor, the weight sensor and the flowmeter and controls openness of the laundry detergent electromagnetic valve, the water inlet valve and the water outlet valve, the water outlet pipe is communicated with the wastewater treatment device, and the wastewater treatment device is used for storing treated wastewater into a water storage tank of a toilet for secondary use.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED

Latest standardized assignees - inventors removed

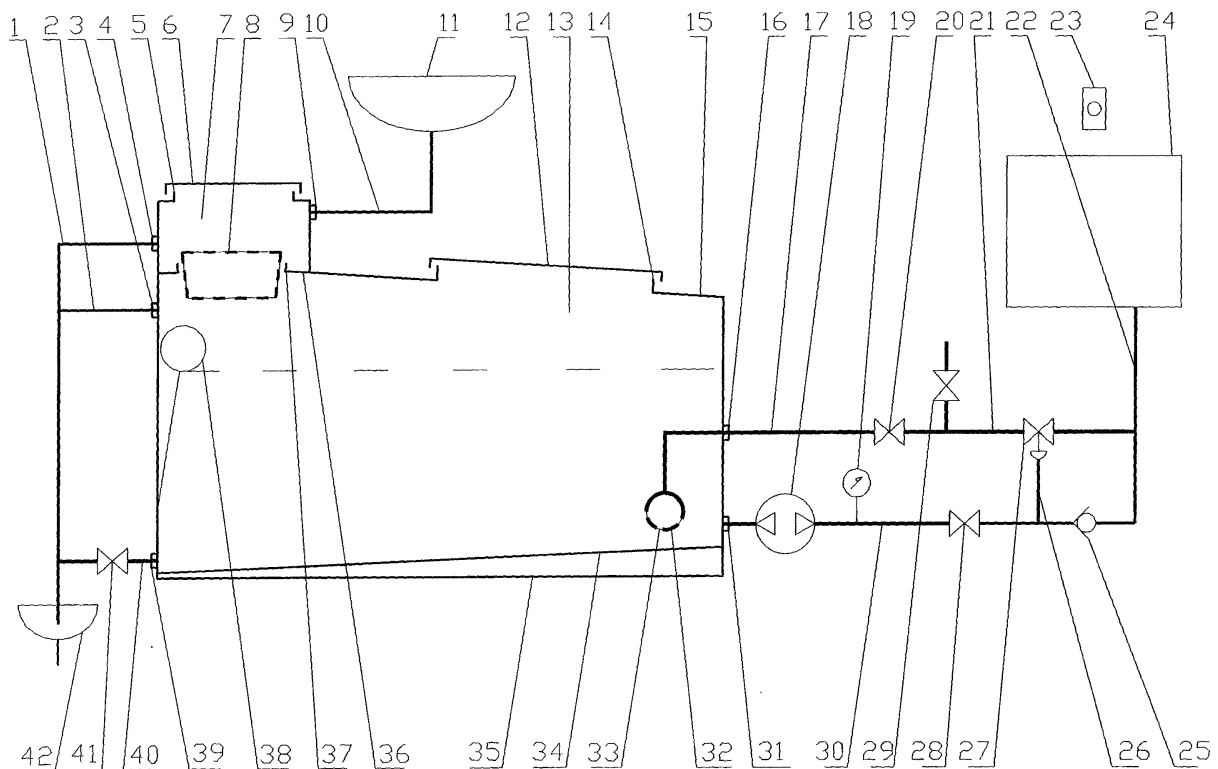
XU YUEMIAO

Family 7/25 - FAMPAT - ©Questel

Title

(CN204456317U)

Domestic wastewater automatic collection and toilet flushing water-saving device

Images**Publication numbers with kind code & date**

CN204456317

U

2015-07-08

CN204456317U

**Abstract**

(CN204456317)

The utility model relates to a domestic wastewater automatic collection and toilet flushing water-saving device in the water saving field. The device is composed of a water collection tank (35), a water pump (18), a one-way valve (25) and a pressure control valve (27) connected through pipelines. The water collection tank (35) can be mounted under a wash basin (11), and the pipelines are concealed; a filter (8) is used for collecting relatively large thick and large pollutants in wastewater, and by the extrusion function of a sloping top plate (15), the automatic flowing function of a sloping bottom plate (34) and the flushing function of a back flusher (32), fine floating and precipitated pollutants in wastewater are cleaned automatically; a time delay inductive sensor (23), a low water level switch (38) and a pressure switch (19) are connected with the water pump (18) in series so as to automatically control start and stop of the water pump (18); the pressure control valve (27) and the one-way valve (25) are in water pressure linkage with wastewater and tap water so as to automatically control supply and cut off of the wastewater and the tap water, and thus, the wastewater and the tap water can be supplied alternatively to a toilet water tank (24) for flushing the toilet. The device has the advantages of reasonable structure, convenience in manufacture and mounting, high automation degree and low cost, so that the device is a pioneering innovation, saves water effectively and is suitable for domestic use.

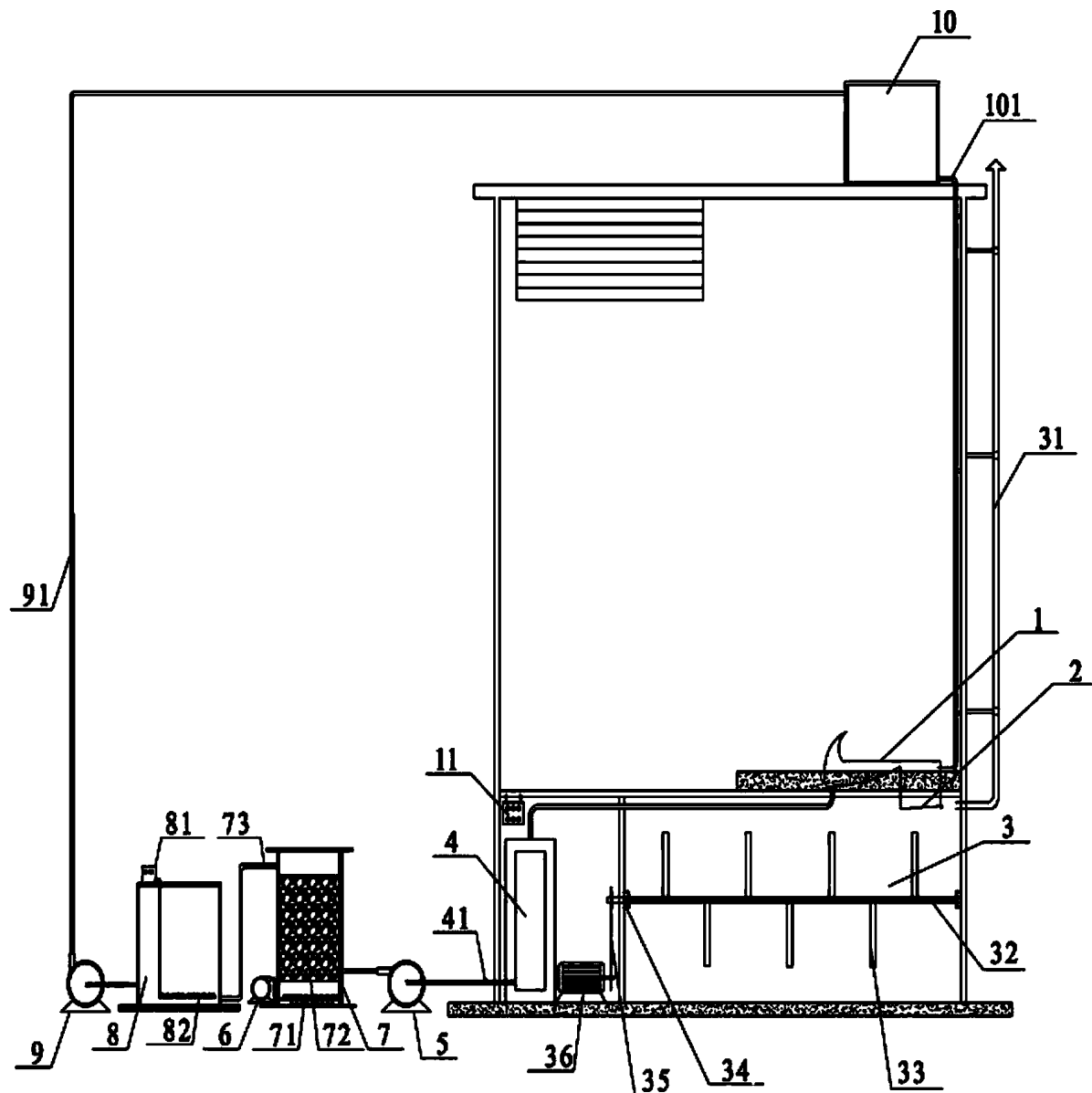
Inventors

ZHANG WENYI

CAI ZIQI

YANG DALONG

Images



(CN204342617)

The utility model discloses a dung and urine separation type biological **toilet** which is simple in structure and environmental-friendly. The dung and urine separation type biological **toilet** comprises three parts of a control system, a **washing** system and a microorganism purifying system, wherein the control system comprises an infrared **sensor**, a rotary speed controller and a liquid **level** meter; the microorganism purifying system comprises a solid-liquid separating device, a solid microorganism decomposing **tank**, a dung buffering **tank**, a **water pump**, an aeration **machine** and an aerobiotic biological **filter tank**; the **washing** system comprises a **water** storage **tank**, a **water pump**, a deep purifying **tank** and a **water washing** urinal; the solid-liquid separating device is connected with the **water washing** urinal, the solid microorganism decomposing **tank** and the dung buffering **tank**; the aerobiotic biological **filter tank** is connected with the dung buffering **tank** and the deep purifying **tank** through the **water pump**, and the aerator is connected with the aerobiotic biological **filter tank**; the deep purifying **tank** is connected with the **water** storage **tank** through the **water pump**, the **water** storage **tank** is connected with the **water washing** urinal, and the **water washing** urinal is connected with the control system through the infrared **sensor**.

The dung and urine separation type biological toilet is simple in structure and low in operation cost, and facilitates the protection of an environment and the recycling of resources.

Inventors

FENG ZHENGYUAN

YAN ZHIYING

FENG ZHENGWEI

LIAO YINZHANG

CHEN PING

XU LISHAN

YUAN YUEXIANG

Latest standardized assignees - inventors removed

CHENGDU INSTITUTE OF BIOLOGY THE CHINESE ACADEMY OF SCIENCES

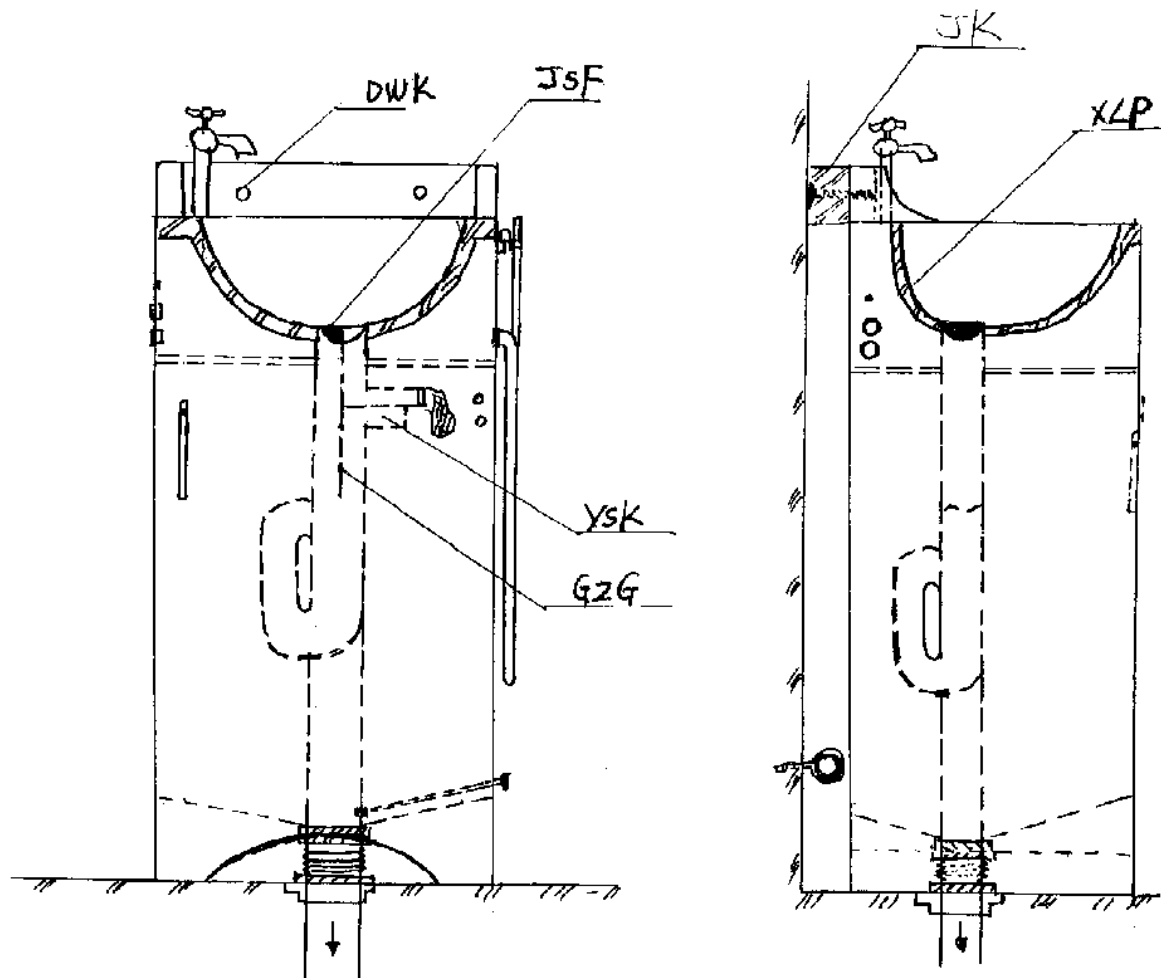
CHENGDU YOUYIJIA ENVIRONMENTAL PROTECTION EQUIPMENT ENGINEERING

Family 9/25 - FAMPAT - ©Questel

Title

(CN1273309)

Integrated unit of intelligent water-saving tank and washbowl

Images**Publication numbers with kind code & date**

CN1273309

A

2000-11-15

CN1273309

**Abstract**

(CN1273309)

An integrated unit of intelligent water-saving box and washbowl features that the used domestic water such as bath water and cloth washing water is filtered and then collected in the water-saving box. The collected water is then pumped automatically into water tank for toilet. It has the automatic switching-over function between running water and secondary water. When the secondary water is consumed, it can begin to use running water. Its advantages include little occupied ground area and space (only using the space under wash basin), convenient application, intelligent switching and saving water.

Inventors

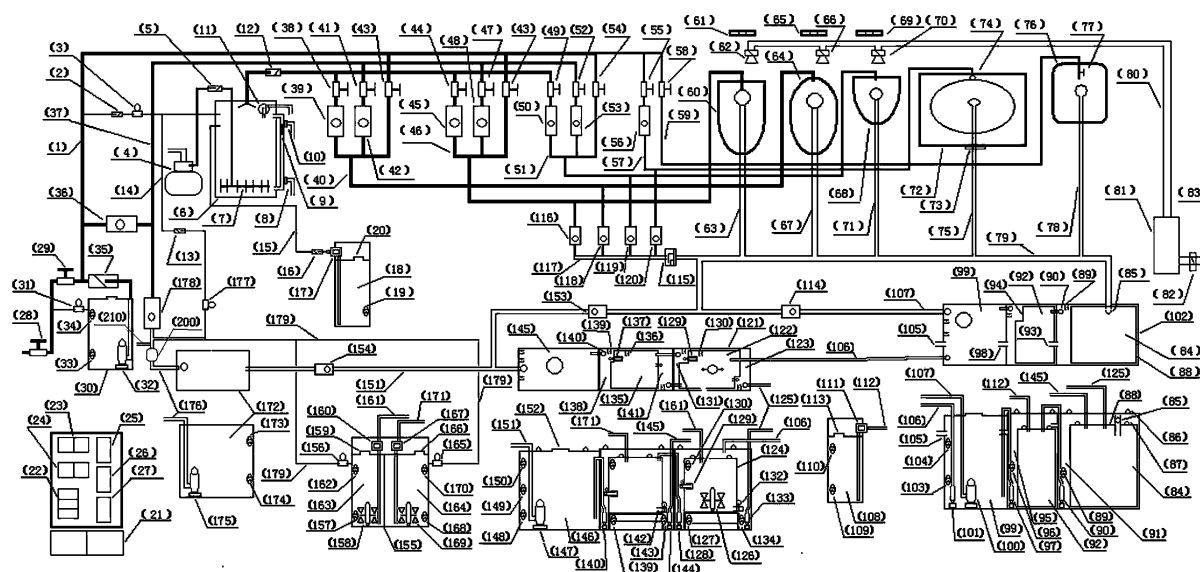
FU JIAN

Family 10/25 - FAMPAT - ©Questel

Title

(CN203583624U)

Intelligent, ecological and energy-saving circulation flushing processing system for public toilet

Images**Publication numbers with kind code & date**

CN203583624

U

2014-05-07

CN203583624U

**Abstract**

(CN203583624)

The utility model relates to an intelligent, ecological, environment-friendly, energy-saving and **water**-saving circulation flushing processing system for a public **toilet**. The intelligent, ecological and energy-saving circulation flushing processing system for the public **toilet** comprises a solar generation and microcomputer intelligent control system (intelligent circuit system), an automatic induction system for automatic control and mutual linkage of each device, equipment and appliances of the solar generation and microcomputer intelligent control system, a flushing and backward flushing system, an odor collecting and purifying system, a solid-liquid separating and processing device, an ecological circulation **water** processing device and other accessory equipment and devices. The intelligent, ecological and energy-saving circulation flushing processing system for the public **toilet** is high in intelligence degree, convenient to operate, good in flushing effect, free of odor and not prone to blockage, and achieves the effects of micro use amount of **water** (**water** for **washing** hands and a mop) and zero emission, the popularization and use of the intelligent, ecological and energy-saving circulation flushing processing system for the public **toilet** represent the use characteristics and construction standards of hygiene, convenience, energy conservation and ecological environmental protection of a modernized public **toilet**, accords with the trend of building an ecological, environment-friendly, energy-saving, emission-reducing, civilized and harmony society at the present stage in China, and meets the economic requirements for building an ecological, civilized and canonical modern society in China at present.

Inventors

LI HONG

THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED

Latest standardized assignees - inventors removed

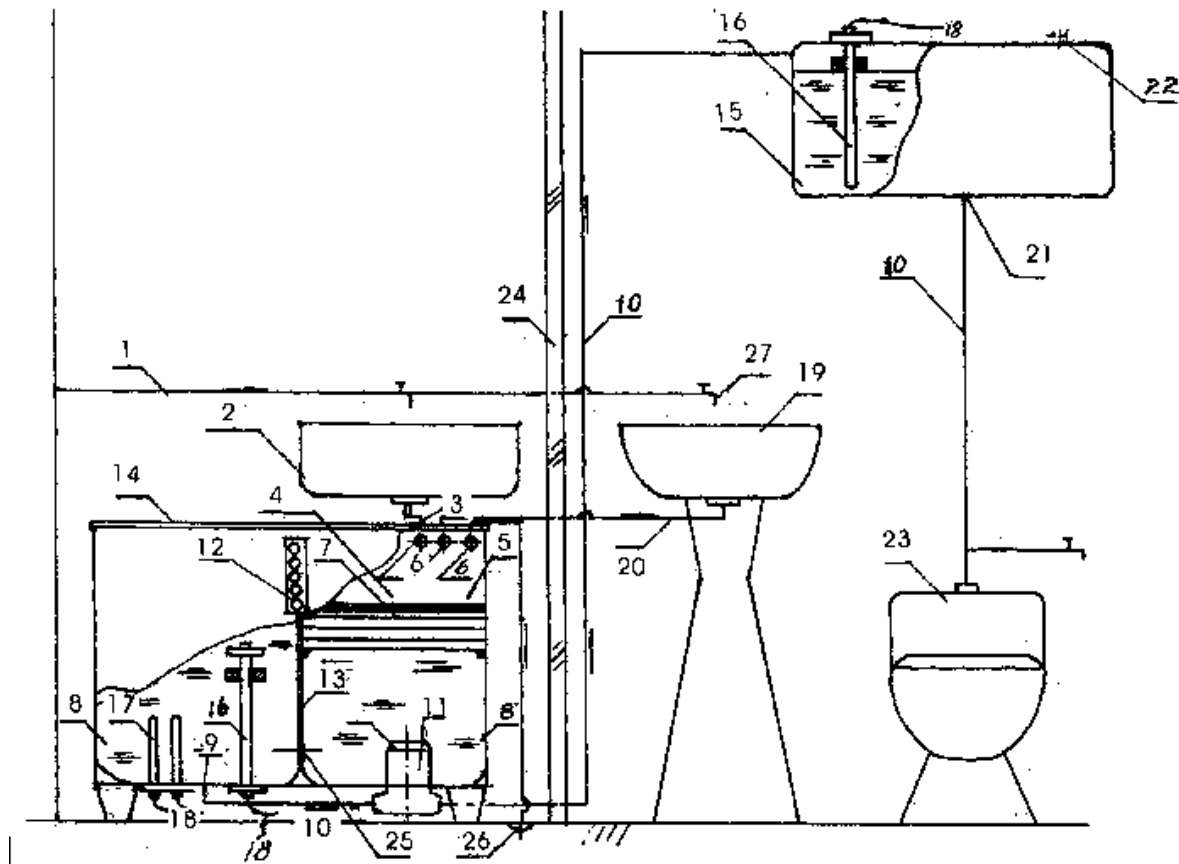
SICHUAN YA AN WANFU CONSTRUCTION ENGINEERING

Family 11/25 - FAMPAT - ©Questel

Title

(CN2557598U)

Domestic water-saving machine

Images**Publication numbers with kind code & date**

CN2557598

Y

2003-06-25

CN2557598U

**Abstract**

(CN2557598)

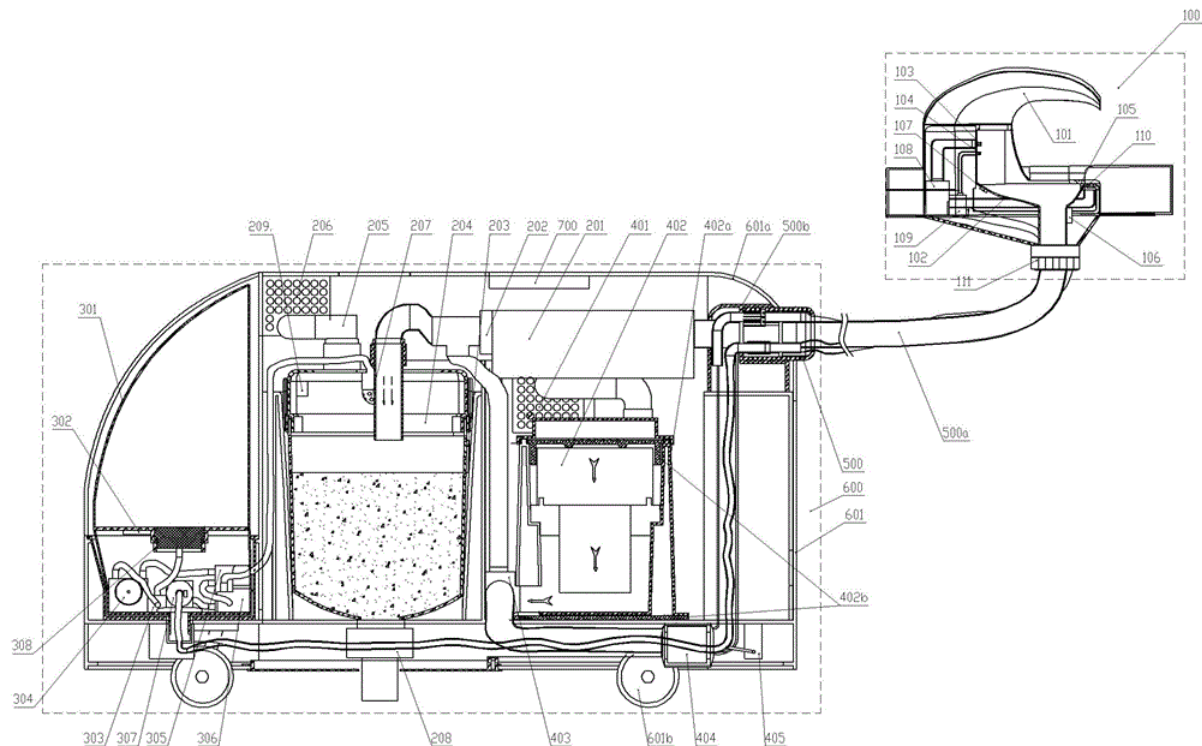
Disclosed is a domestic water-saving machine, which is a device for reutilizing the domestic sewage by treatment, the utility model has a water collection tank which is provided with a waste pipe connected to the inner container of the machine, a filter case made of a plurality of materials is used for filtering the sewage, and the filtered sewage is sent into a water storage bucket and then fed into an upper water tank by a water pump, a sensor and the water pump arranged in the filter case are connected electrically to form a pump control circuit which can ensure that the clean water in the upper water tank can be supplied to the closet and the urinal normally, and an indicator light board is arranged on the shell of the machine. The utility model has advantages of simple and reasonable structure, safe and reliable performance and high water saving efficiency, which is an ideal domestic water-saving device.

Inventors

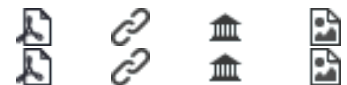
WANG SHIJU

ZHANG WENZHONG

Images



CN103655094	B	2016-08-17	CN103655094B
CN103655094	A	2014-03-26	CN103655094



(CN103655094)

YAN JINKAN

QU KAI

LIU HOUWEN

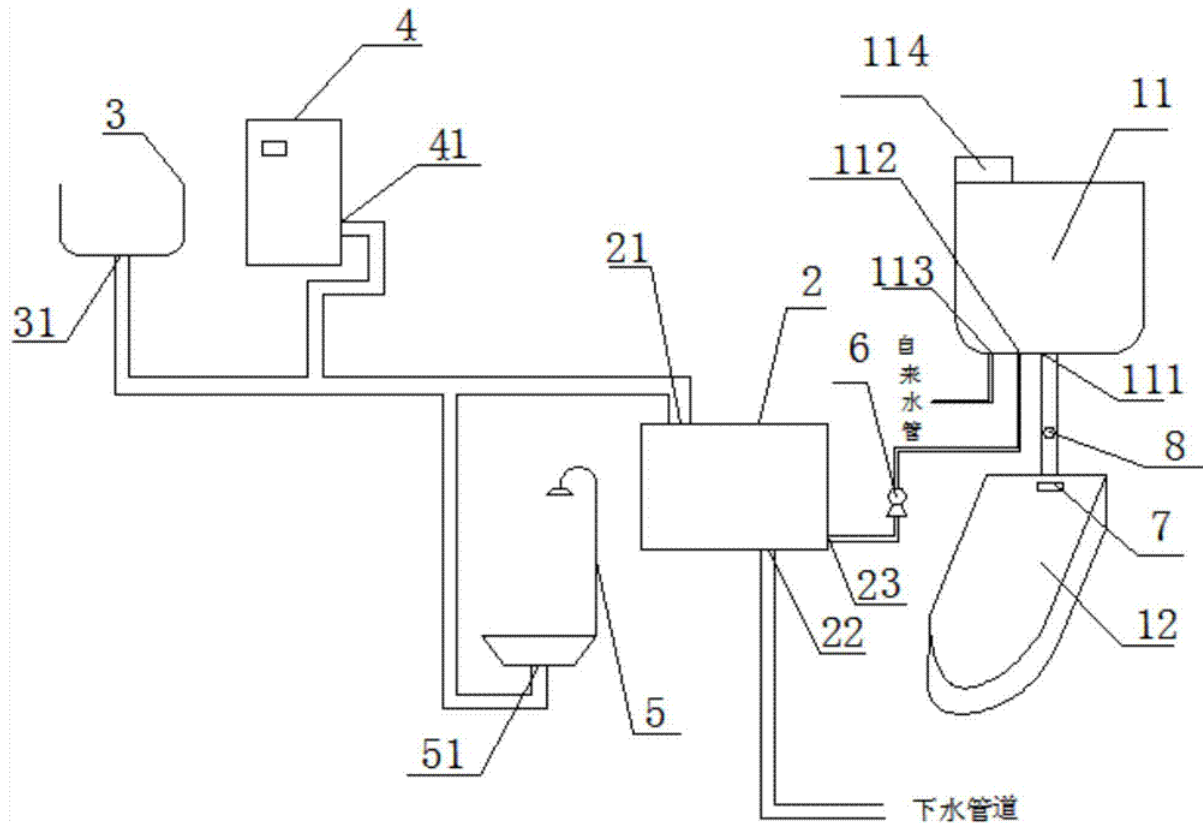
Latest standardized assignees - inventors removed

SHANDONG ZHONGCHE HUATENG ENVIRONMENTAL TECHNOLOGY

Family 13/25 - FAMPAT - ©Questel

Title

(CN207063057U)

Domestic bathroom **water** saving system**Images****Publication numbers with kind code & date**

CN207063057

U

2018-03-02

CN207063057U

**Abstract**

(CN207063057)

Domestic bathroom **water** saving system, including closestool and **water tank** no. 1, the **water** inlet of **water tank** no. 1 passes through to arrange **water** piping connection with the outlet in wash basin, **washing machine** and shower room respectively, **water tank** no. 1 sets up at the below ground, a **water tank** bottom is equipped with outlet no. 4, and outlet no. 4 is connected with sewer pipe, and the outlet is equipped with solenoid valve no. 1 everywhere, is equipped with **level sensor** no. 1 in the **water tank** no. 1, the closestool is equipped with **water tank** no. 2, **water tank** no. 2 is equipped with the mouth of **washing** by **water**, the mouth of **washing** by **water** is connected with the urinal of closestool, the bath solenoid valve is located to be equipped with by the mouth of **washing** by **water**, **water tank** no. 2 still is equipped with **sewage** population and clear **water** inlet, the **sewage** entry of **water tank** no. 2 is connected with the delivery port of **water tank** no. 1 to set up the **water pump** on the connecting tube, clear **water** inlet connects **water** pipe, **water** saving system still includes the controller. The utility model discloses can be used for **washing** urinal, **water** economy resource by recycledomestic **sewage**, still **filter**, disinfect through the domestic **sewage** to collecting, avoid secondary pollution effectively.

Inventors

HE QINYANG

XIAO YI

CHEN CONGYU

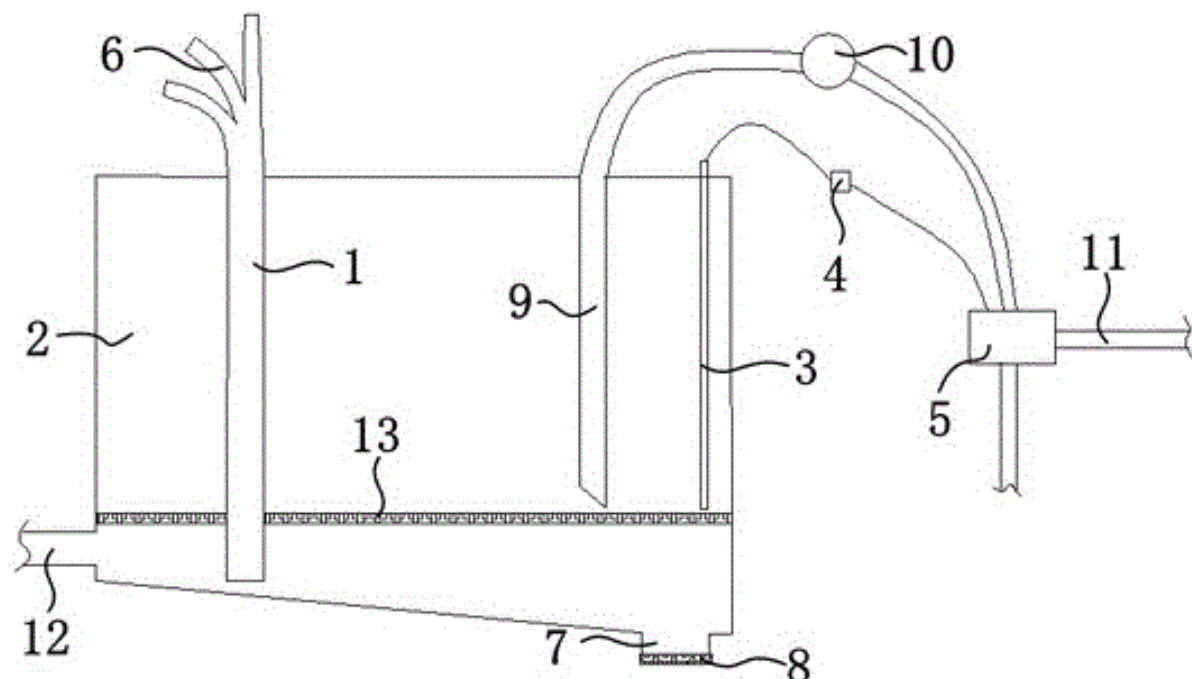
CAO YICHENG

Family 14/25 - FAMPAT - ©Questel

Title

(CN205712277U)

Sanitary wastewater reutilization system of family

Images**Publication numbers with kind code & date**

CN205712277

U

2016-11-23

CN205712277U

**Abstract**

(CN205712277)

The utility model belongs to the mobile toilet field, concretely relates to sanitary wastewater reutilization system of family, collect house steward, water tank, level sensor, notes water controller and annotate water control valve including sewage, level sensor, notes water controller and notes water control valve connect gradually, level sensor arranges in in the water tank, the higher authority that house steward was collected to sewage is equipped with a plurality of sewage collecting pipe joint, the bottom of water tank is followed a left side and is turned right downwards, just the bottom low order end of water tank is equipped with the blow off pipe, the bottom of blow off pipe is equipped with the detachable end cap, still be equipped with the drinking -water pipe in the water tank, the drinking -water pipe passes through the water pump and annotates water control valve to link to each other, the opposite side of annotating water control valve is connected with the running water delivery pipe, the utility model discloses can realize the automatic collection of multiple sewage, not fouling is cleared up with precipitating easily to the solid impurity in the sewage, can add the water -washed lavatory voluntarily, and safety ring protects, and the water economy resource has realized that the secondary of domestic water uses greatly.

Inventors

GONG SUHUA

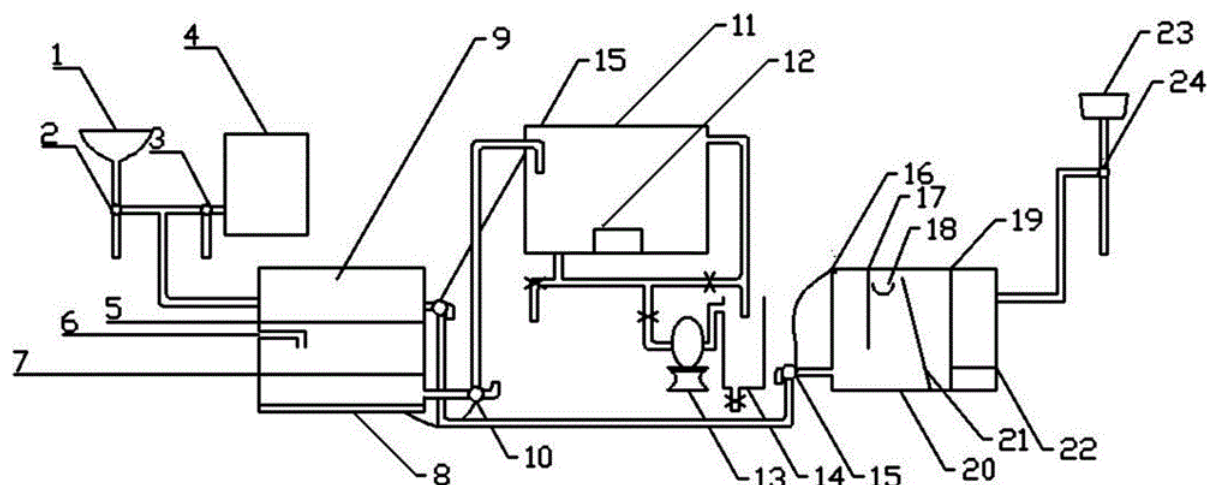
Latest standardized assignees - inventors removed

SICHUAN BRIGADES ENVIRONMENTAL PROTECTION & TECHNOLOGY

Family 15/25 - FAMPAT - ©Questel

Title

(CN208777387U)

Waste **water** treatment of family and cyclic utilization system**Images****Publication numbers with kind code & date**

CN208777387

U

2019-04-23

CN208777387U

**Abstract**

(CN208777387)

The utility model discloses a waste **water** treatment of family and cyclic utilization system, include and handle pond, cistern, **toilet** bowl, mop pond, oil -**water** separator and kitchen sink through basin pond, **washing machine**, the collection of pipe connection, the collection handle the pond and include coarse **filter** layer, mix and congeal layer, thin filtering layer, oil -**water** separator is equipped with slagging -off basket, oil removal board, oil collecting hole, oil baffle along the rivers whereabouts in proper order, basin pond, **washing machine** and kitchen sink are equipped with the drain pipe separately, and each drain pipe all is equipped with slight **sewage** outlet and severe **sewage** outlet, and the drain pipe passes through the three -way valve and communicates with slight **sewage** outlet and severe **sewage** outlet respectively, is equipped with the micropump on the conduit between oil -**water** separator, collection processing pond and the cistern, except that manual control, still be equipped with signal automatic control system and set up gravity **sensor**, set up opening of micropump of **water level** inductor control on oil -**water** separator lateral wall upper portion and stop collect handling bottom of the pool portion.

Inventors

QI CHENHUI

XIAO HUAPING

WU SHIYI

XIE WAN

CHEN YILU

CUI YUFENG

Latest standardized assignees - inventors removed

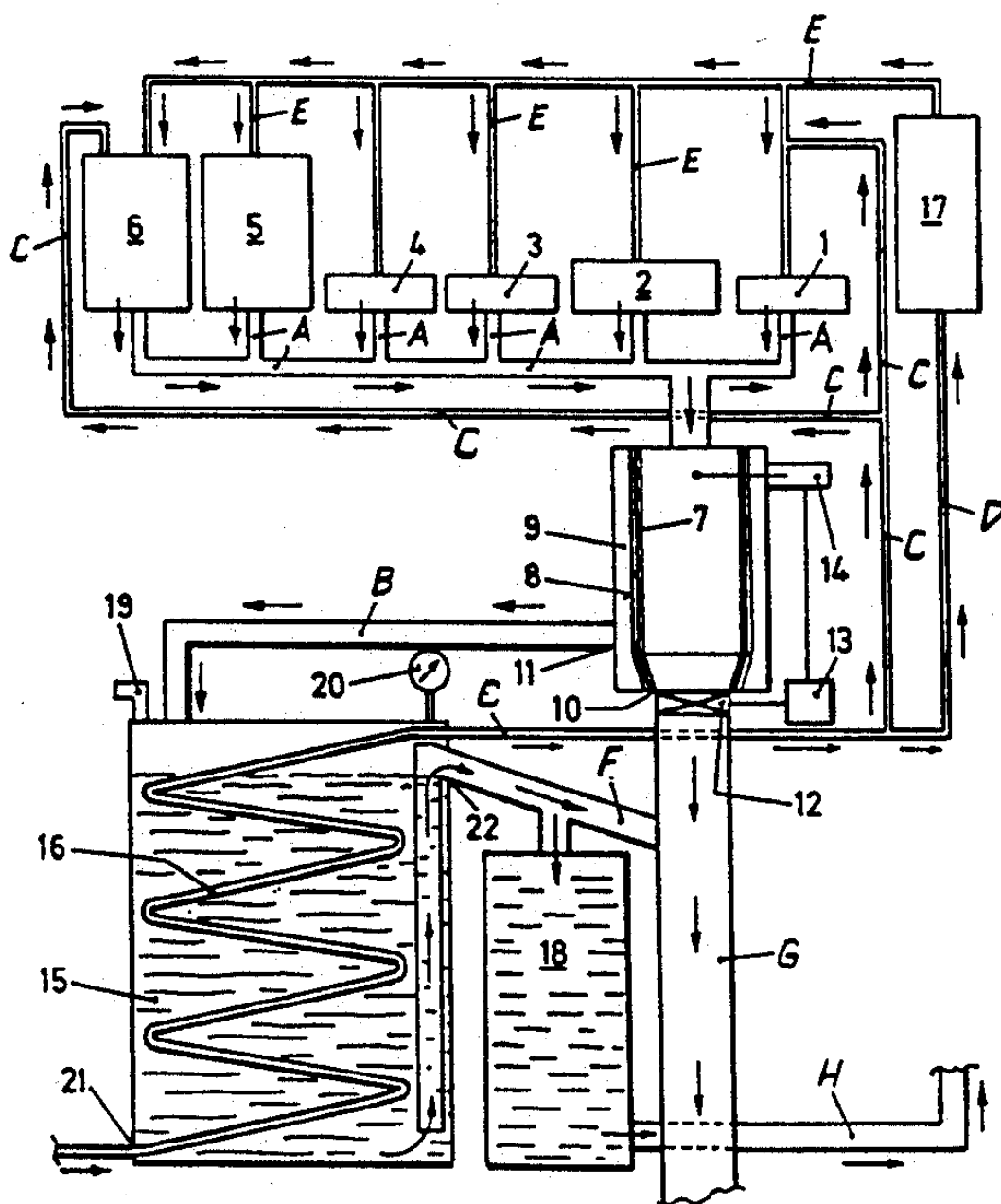
WUHAN UNIVERSITY OF SCIENCE & TECHNOLOGY

Family 16/25 - FAMPAT - ©Questel

Title

(EP-532910)

Installation for heat recovery from domestic hot water

Images**Publication numbers with kind code & date**

DE59208419	D1	1997-06-05	DE59208419
AT152507	T	1997-05-15	ATE152507
EP0532910	B1	1997-05-02	EP-532910
US5301745	A	1994-04-12	US5301745
DE4126791	C2	1993-10-21	DE4126791
EP0532910	A1	1993-03-24	EP-532910
DE4126791	A1	1993-02-18	DE4126791

**Abstract**

(EP0532910)

The aim is to achieve, without using a heat pump, heat recovery, which operates simply, with low maintenance and without energy, from if possible all types of hot waste water occurring in the household, after these have been separated from the

cold waste waters, it being the intention that the possibility should also still exist of using the waste **water** subjected to the heat recovery as **toilet** flushing **water**. This is achieved in that the **tank** is designed as a distributor **tank** and equipped with an inner wall **filter** and in that the outlet leading into the waste **water** duct can be shut off by means of a shut-off member via a solenoid valve and a temperature **sensor** measuring the **water** temperature in the distributor **tank** and in that the distributor **tank** has a second outlet, via which, above a given adjustable temperature, the waste **water** cleaned by the inner wall **filter** can be led off into a second pipe into a heat exchanger **tank** and in that the heat exchanger **tank** is connected via an overflow pipe to the waste **water** duct and has a heat exchanger pipe coil, through which cold drinking **water** is conducted, which can be supplied via a third pipe system to the consumer points of the household on the one hand and via a fourth pipe to a boiler on the other hand, the boiler being connected via a fifth pipe system to the individual consumer points of the household and there being connected, where applicable, to the overflow pipe of the heat exchanger **tank** a waste **water** collecting **tank** which is connected via a sixth pipe to the **toilet** cistern so that the drinking **water** consumption in the household is also reduced hereby in that fresh drinking **water** is not used for the **toilet** cistern. <IMAGE>

Inventors

SEIB KLAUS

THOMAS HANS-WERNER

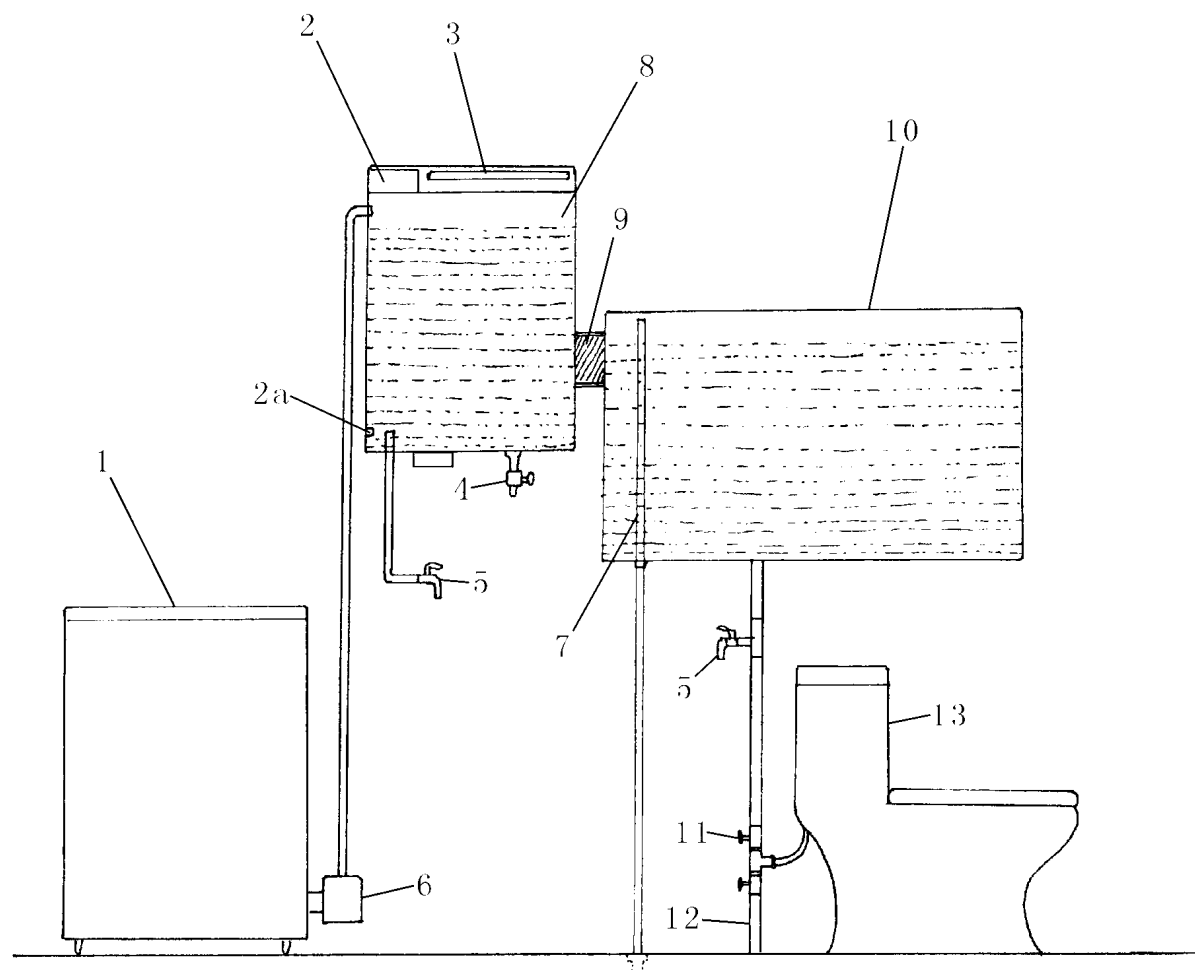
Latest standardized assignees - inventors removed

PICHL GUENTER

Family 17/25 - FAMPAT - ©Questel

Title

(CN102720251)

Automatic utilizing device of waste **water****Images****Publication numbers with kind code & date**

CN102720251

A

2012-10-10

CN102720251

**Abstract**

(CN102720251)

The patent refers to the field of 'domestic plumbing installations and sinks'. The invention discloses an automatic utilizing device of waste **water**. A **water pump** is arranged at each **water** outlet of a **washing machine** and the like when the **washing machine** and the like are arranged on the ground, wherein the **water pump** is connected with an upper **water** storage **tank** through a pipe; a flow channel including a filtering device is arranged between the upper **water** storage **tank** and a lower **water** storage **tank**; each **water** outlet of the **washing machine** and the like is connected with a middle **water** storage **tank** on a low table when the **washing machine** and the like are arranged on a table board; the flow channel including the filtering device is arranged between the middle **water** storage **tank** and the bottom **water** storage **tank** on the ground; a suction pipe of the bottom **water** storage **tank** is connected with the **water pump**; the **water pump** is connected with a high **water** storage **tank** through the pipe; an ozone generator and the like are arranged above the upper **water** storage **tank** and the bottom **water** storage **tank**; and the waste **water** discharged from the **washing machine** and the like is pumped into the upper **water** storage **tank** or flows into the middle **water** storage **tank** and then flows into the bottom **water** storage **tank**, and the waste **water** flows into the lower **water** storage **tank** or is pumped into the high **water** storage **tank** to store for the purposes of rinsing a closestool or irrigating for greening and the like after being degraded by ozone or filtered by the filtering device, so that the waste **water** is utilized and the secondary pollution of the waste **water** to the environment is also avoided.

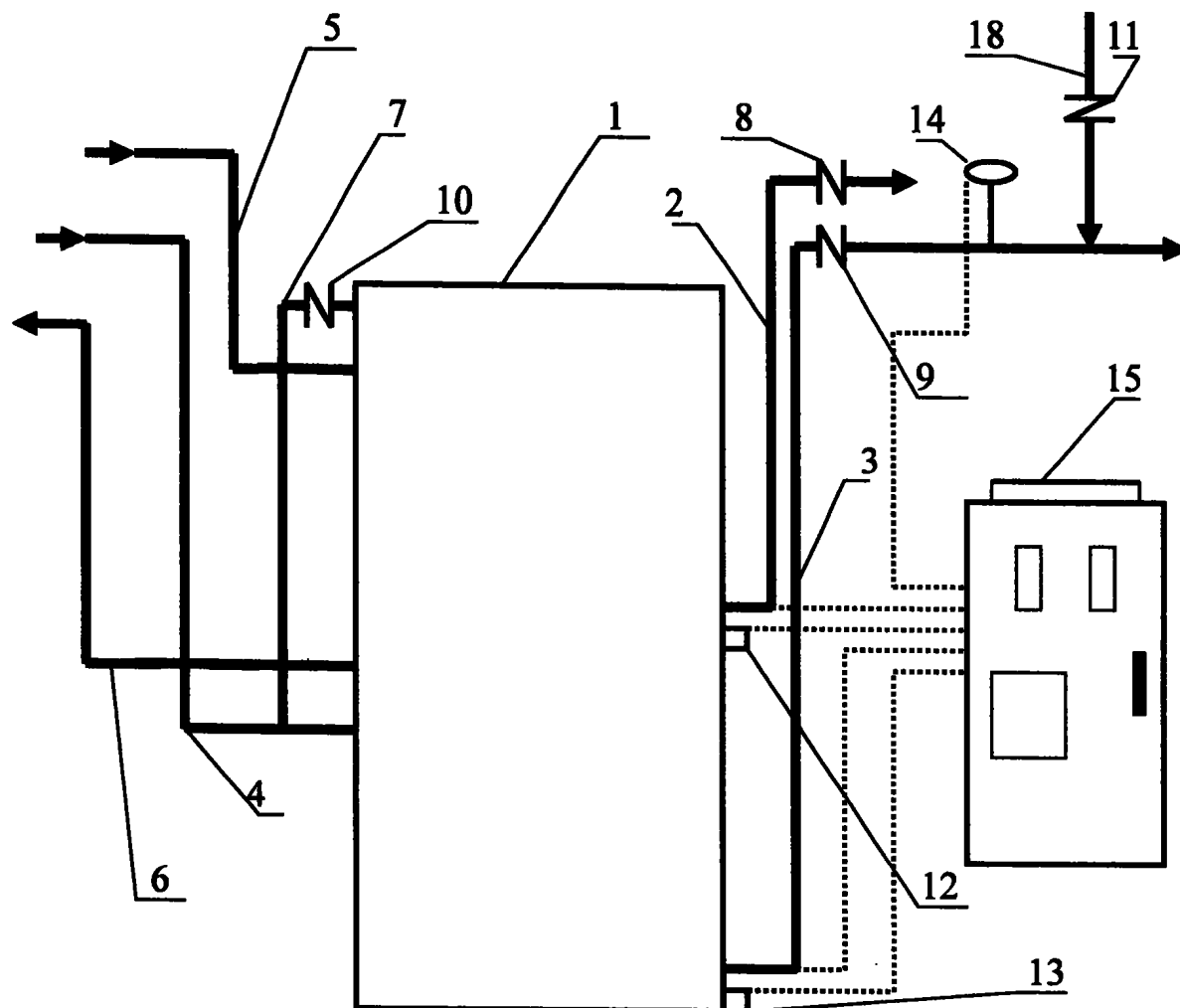
Inventors

CHEN KE

Family 18/25 - FAMPAT - ©Questel

Title

(CN201040727U)

Water circulating and utilizing device**Images****Publication numbers with kind code & date**

CN201040727

Y

2008-03-26

CN201040727U

**Abstract**

(CN201040727)

The utility model discloses a wastewater recycling device during purified **water** producing process, consisting of a double-layer **water tank**, an inlet pipe and an outlet pipe, a **water pump**, a liquid-level **sensor**, an electrical apparatus controlling holder, etc. The upper layer **tank** of the double-layer **water tank** is used to store the first and the secondary Ro discharged **water**, after pressured by the **water pump**, the Ro discharged **water** is used as the backwash **water** of the activated carbon quartz sand **filter**, the backwash **water** of hollow fiber filtering, which can also be used as the cleaning **water** for manually cleaning the purified **water** bucket. The lower layer **tank** is used to store the backwash **water** of the activated carbon quartz sand **filter** and the discharged **water** of the automatic pouring **machine**, after pressured by the **water pump**, the backwash **water** and the discharged **water** are then used as the **water** of flushing **toilet**, mopping floor, greening and fire fighting, which can greatly save tap **water**. When the device stops producing, the municipal tap **water** pipe network will automatically supply **water** to the non-producing **water** used equipment. The multiple unidirectional valves and the anti fouling isolating valve in the device prevent the **water** pollution caused by **water** reverse flow. The device is safe, reliable, and in unattended.

Inventors

WANG ZHONGJUN

Latest standardized assignees - inventors removed

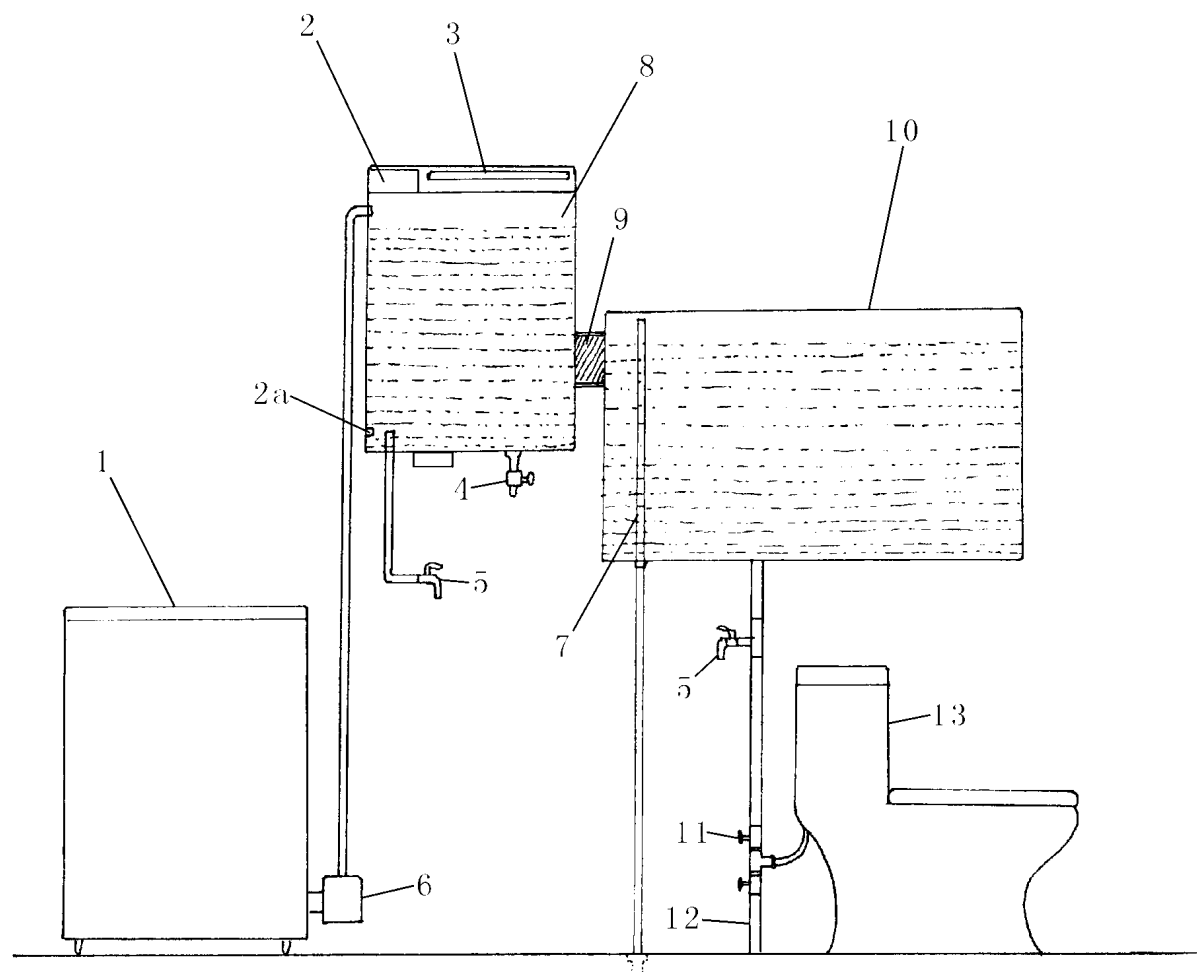
SHANGHAI DATUN ENERGY HOLDING

Family 19/25 - FAMPAT - ©Questel

Title

(CN202644668U)

Automatic wastewater utilization device

Images**Publication numbers with kind code & date**

CN202644668

U

2013-01-02

CN202644668U

**Abstract**

(CN202644668)

The utility model provides an automatic wastewater utilization device. When a **washing machine** and the like are put on the ground, the discharge opening of the **washing machine** and the like is provided with a **water pump**, the **water pump** is connected with an upper **water storage tank** through a pipe; a flowing **water** passage comprising a filtering device is arranged between the upper **water storage tank** and a lower **water storage tank**; when the **washing machine** and the like are put on a table-board, the discharge opening of the **washing machine** and the like is connected with a middle **water storage tank**; a flowing **water** passage comprising a filtering device is arranged between the middle **water storage tank** and a bottom **water storage tank** on the ground; a **water** pumping pipe of the bottom **water storage tank** is connected with the **water pump**; the **water pump** is connected with a high **water storage tank** through a pipe; and ozone generators and the like are arranged above the upper **water storage tank** and the bottom **water storage tank**. Wastewater discharged from the **washing machine** and the like is pumped into the upper **water storage tank** or flows into the middle **water storage tank** and then flows into the bottom **water storage tank**; after being degraded by ozone and the like or filtered by the filtering device, the wastewater flows into the lower **water storage tank** or is pumped into the high **water storage tank** for storage so as to flush a closetool or irrigate virescence and the like, so that not only can the wastewater be utilized, but also secondary environmental pollution caused by the wastewater is avoided.

Inventors

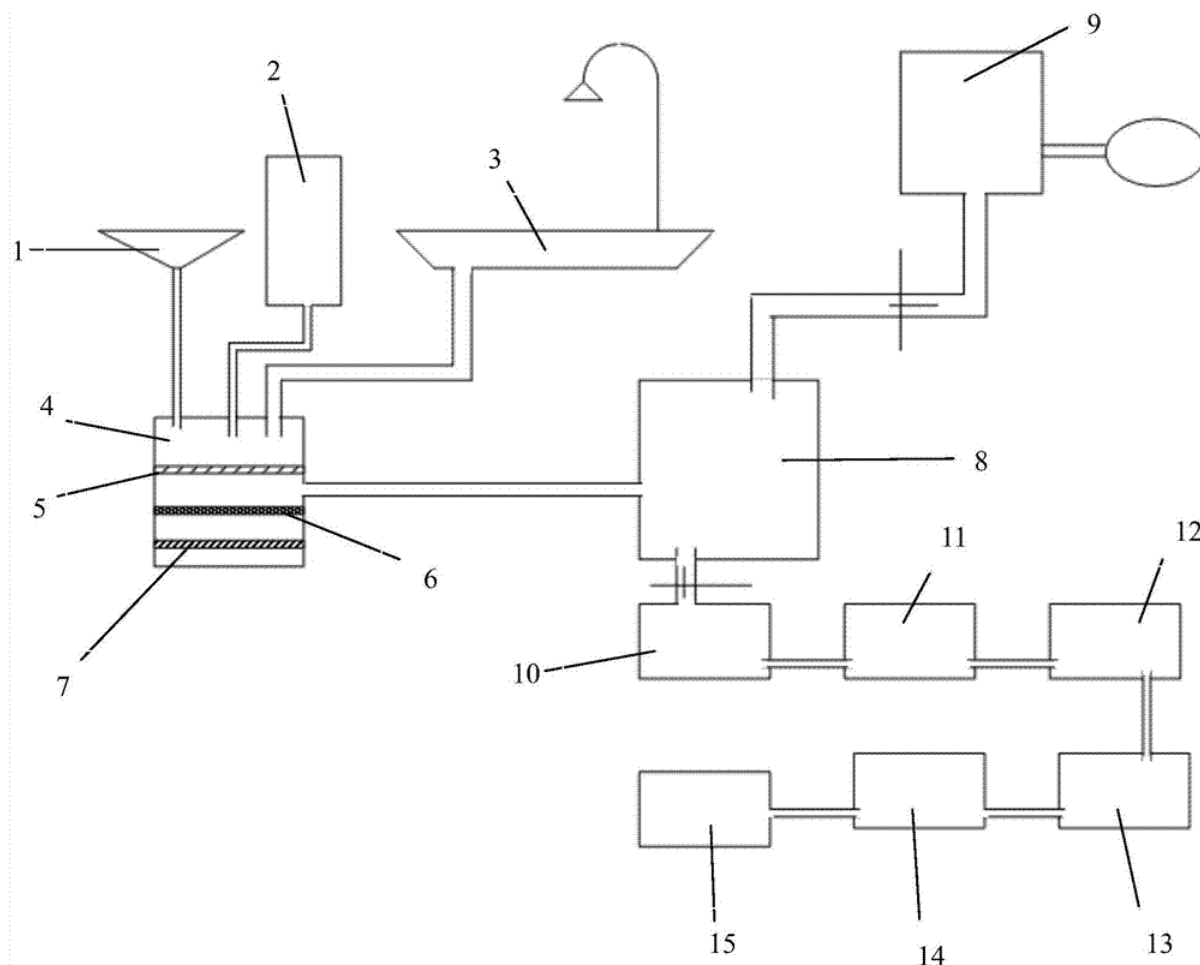
CHEN KE

Family 20/25 - FAMPAT - ©Questel

Title

(CN109052856)

Bathroom domestic wastewater reusing device

Images**Publication numbers with kind code & date**

CN109052856

A

2018-12-21

CN109052856

**Abstract**

(CN109052856)

The invention discloses a bathroom domestic wastewater reusing device. The device comprises a first **water storage tank**, a second **water storage tank**, a first **water level sensor**, a second **water level sensor** and a controller. The first **water storage tank** is connected with a drainage exit of a **water basin**, a drainage exit of a shower and a drainage exit of a **washing machine** through pipelines; the second **water storage tank** is provided with a first **water outlet** and a second **water outlet**, the first **water outlet** is connected with a **water tank** of a closestool, and the second **water outlet** is connected with a recycled **water** filtering system through a pipeline; the first **water level sensor** is arranged in the second **water storage tank**; the second **water level sensor** is arranged in the **water tank** of the closestool; the recycled **water** filtering system is sequentially connected with a preliminary **filter pool**, a first precipitation pool, a pH conditioning pool, a biological nitrogen removal pool, a second precipitation pool and a recycled **water** pool; and the controller is connected with the first **water level sensor**, the second **water level sensor** and an electromagnetic valve. The device filters the drained **water** of the **water basin**, the shower and the **washing machine**, and then uses the drained **water** to flush the closestool and be gathered into the recycled **water** system, the **water** resources are effectively saved, and the wastewater utilization rate is improved.

Inventors

JIN WEI

HAN CHUNLEI

YUE GUOCHANG

Latest standardized assignees - inventors removed

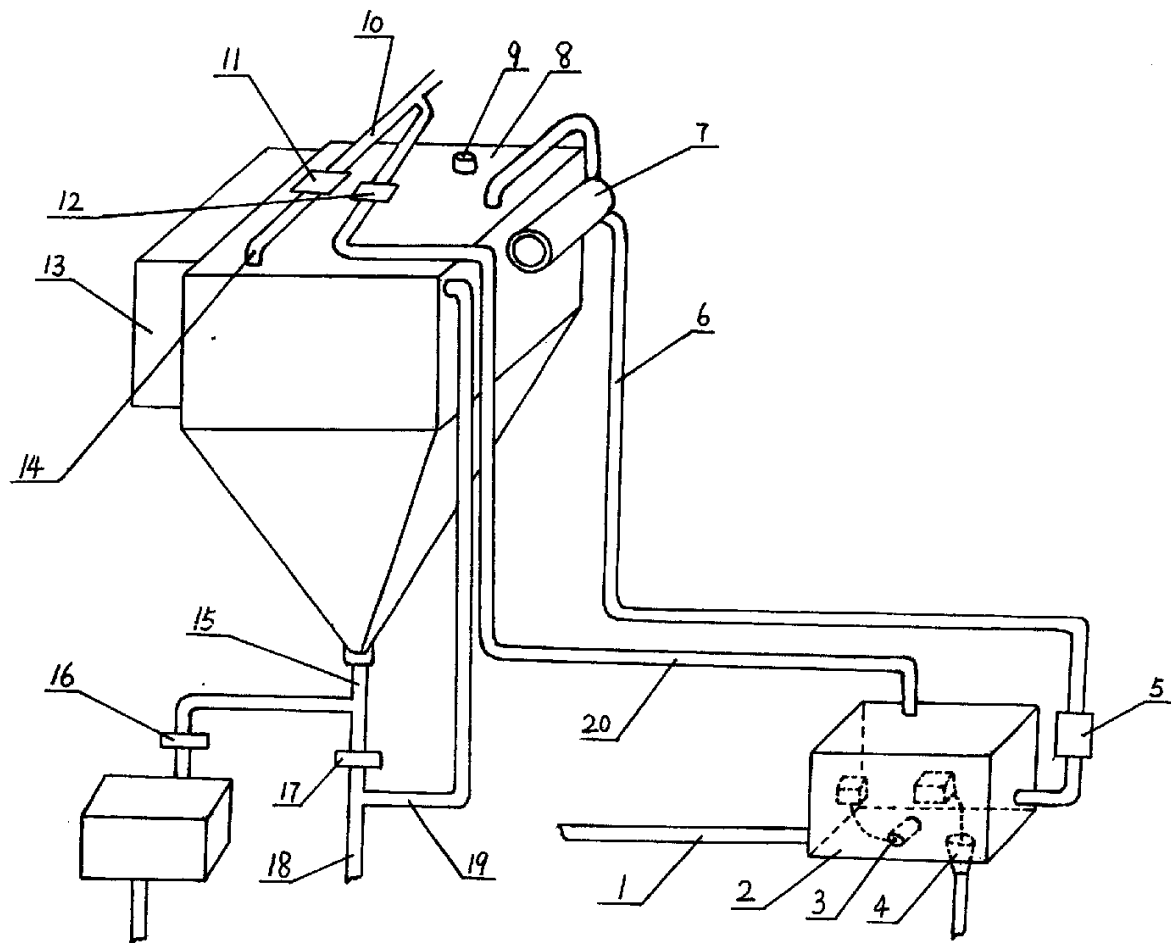
BAOTOU LIGHT INDUSTRY VOCATIONAL TECHNICAL COLLEGE

Family 21/25 - FAMPAT - ©Questel

Title

(CN2765950U)

Domestic wastewater secondary utilization device

Images**Publication numbers with kind code & date**

CN2765950

Y

2006-03-22

CN2765950U

**Abstract**

(CN2765950)

The utility model relates to a domestic wastewater secondary utilization device. A **water** collecting pipe connected with **water** outlet pipes for bathing, etc. leads to a **water** collecting **tank**. A **water** outlet pipe of a **water pump** is connected with a **water** storing **tank**. A reclaiming **water** pipe is connected with the **water pump** and the **water** collecting **tank**, a **filter** screen is arranged between the reclaiming **water** pipe and the **water** collecting **tank**, and a retaining valve is arranged on the reclaiming **water** pipe. The upper end of an overflow pipe is connected to the highest **water level** position of the **water** storing **tank**, and the lower end is connected to a downstream flushing pipe of a urinal flushing valve. The bottom part of the **water** collecting **tank** is communicated with a wastewater downflow pipe by a desilting valve. A **water** supply pipe is connected with the urinal flushing pipe. A **sensor** in the **water** collecting **tank** is connected with a switch of the **water pump**. When wastewater in the **water** collecting **tank** reaches a certain quantity, a signal of the **sensor** switches on the **water pump**, and the wastewater is pumped in the **water** storing **tank**; when **water level** in the **water** collecting **tank** is decreased, the signal of the **sensor** causes the **water pump** to stop. The wastewater in the **water** storing **tank** can be used for flushing the urinal or flushing a mop. When the wastewater in the **water** storing **tank** reaches the highest **water level**, the wastewater is automatically drained into the urinal from the overflow pipe. The utility model reclaims domestic wastewater to use again, and has the advantages of compact structure, low cost, little space occupation, automatic operation, and simple operation; the **water** saving quantity reaches near 80 percent.

Inventors

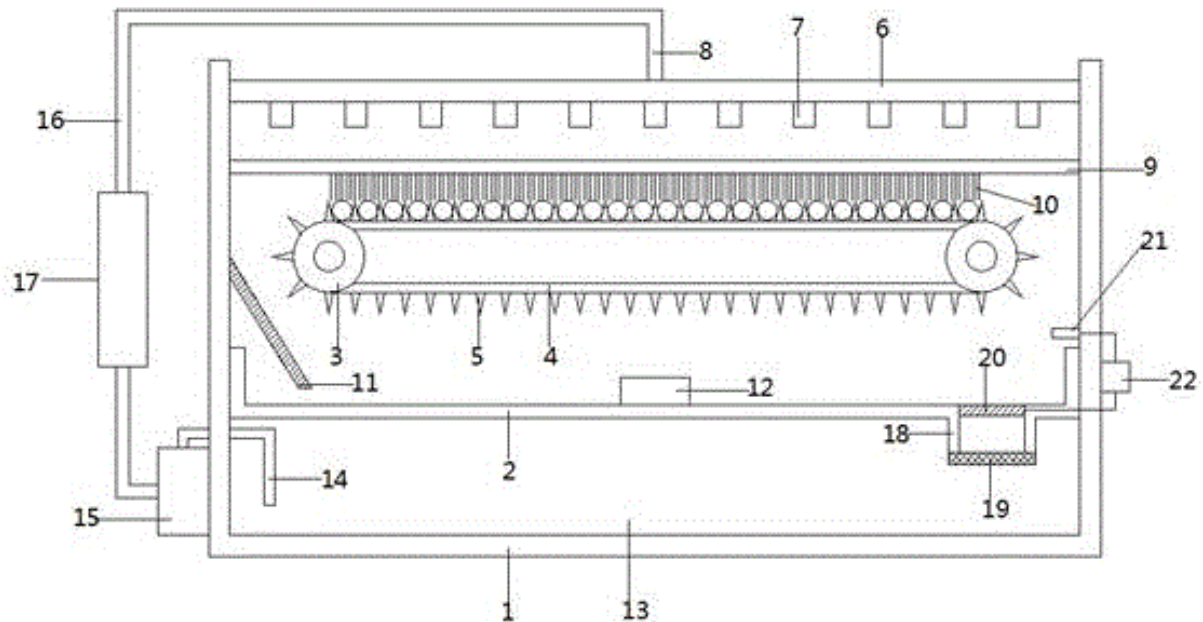
YANG ZHONG

Family 22/25 - FAMPAT - ©Questel

Title

(CN205833695U)

Duck's egg belt cleaning device is used in duck's egg processing

Images**Publication numbers with kind code & date**[CN205833695](#)

U

2016-12-28

CN205833695U

**Abstract**

(CN205833695)

The utility model discloses a duck's egg belt cleaning device is used in duck's egg processing, including the organism, the inside downside **level** of organism is equipped with the **washing tank**, the fixing on the inner wall of organism all around of **washing tank**, the inside upside of organism is equipped with conveyor, a pair of sprocket that conveyor set up about including, with sprocket matched with driving chain and driving sprocket pivoted drive arrangement, evenly be equipped with the separation blade on the outer wall of driving chain, place between two liang of spaced separation blades and remain to be washed the duck's egg, the utility model discloses duck's egg belt cleaning device is used in duck's egg processing adopts the brush to scrub, follow annular spraying and washes and wash the duck's egg with ultrasonic cleaning, and the cleaning performance is good, efficient, in the cleaning process duck's egg damage little, and can heat the **washing** liquid, further improved the cleaning efficiency, practiced thrift the resource in addition, reduced belt cleaning device's use cost.

Inventors

XU LIUHUA

CHEN WENHUI

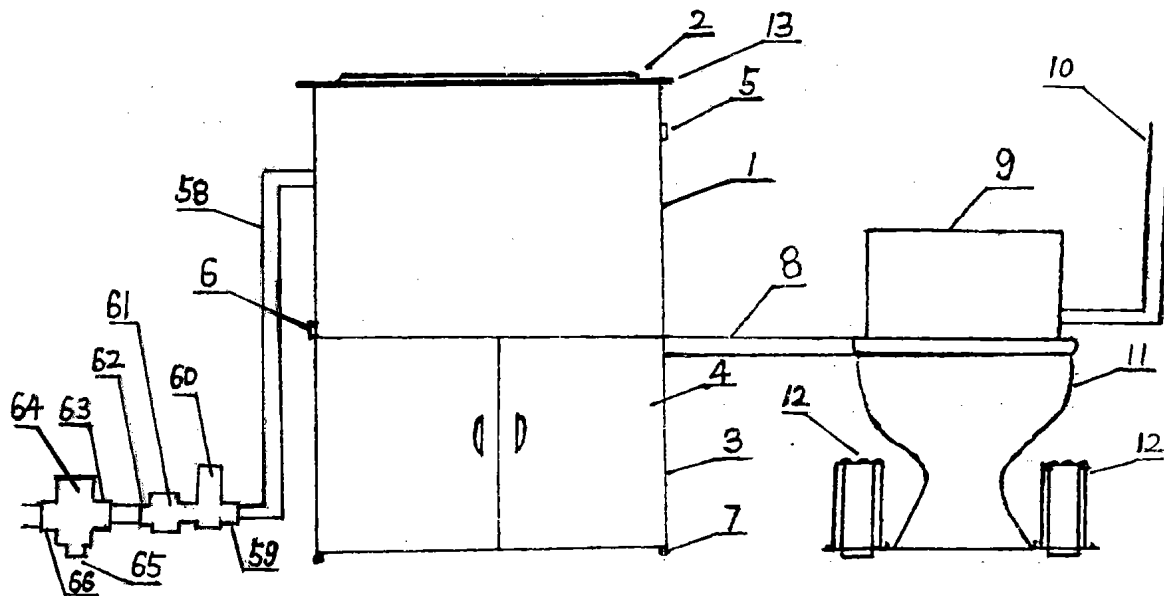
Latest standardized assignees - inventors removed

NANCHANG TEYONG INDUSTRIAL

Family 23/25 - FAMPAT - ©Questel

Title

(CN202416465U)

Water-saving bathroom device capable of utilizing wastewater**Images****Publication numbers with kind code & date**

CN202416465

U

2012-09-05

CN202416465U

**Abstract**

(CN202416465)

The utility model provides a **water**-saving bathroom device capable of utilizing wastewater. The **water**-saving bathroom device comprises a **water** and object storage device and a **water** purification secondary **water** dual-purpose **water**-saving closestool, wherein the **water** and object storage device comprises a **water** storage **tank**, an object storage **tank** and a washbasin. A **water**-saving drainage value is arranged at the bottom of the **water** storage **tank**, and a secondary **water** and dirty **water** shunt device is arranged at the bottom of the washbasin. In the **water** purification secondary **water** dual-purpose **water**-saving closestool, a closestool clean **water** and running **water** channel below a closestool **water** **tank** is communicated with a closestool secondary **water** inlet pipe, and pedals are arranged on the both sides of the closestool urinal. According to the device, the closestool is possible to be flushed by the secondary **water** which is controlled at will, and no matter whether the secondary **water** is stored in the **water** storage **tank**, the closestool is flushed by the clean **water** at will. The device further provides a possibility for squatting type defecation for people who cannot adopt squatting type defecation and cannot excrete through sitting type defecation, therefore, the device provides convenience for people, and has an effect of saving a large amount of **water** resources.

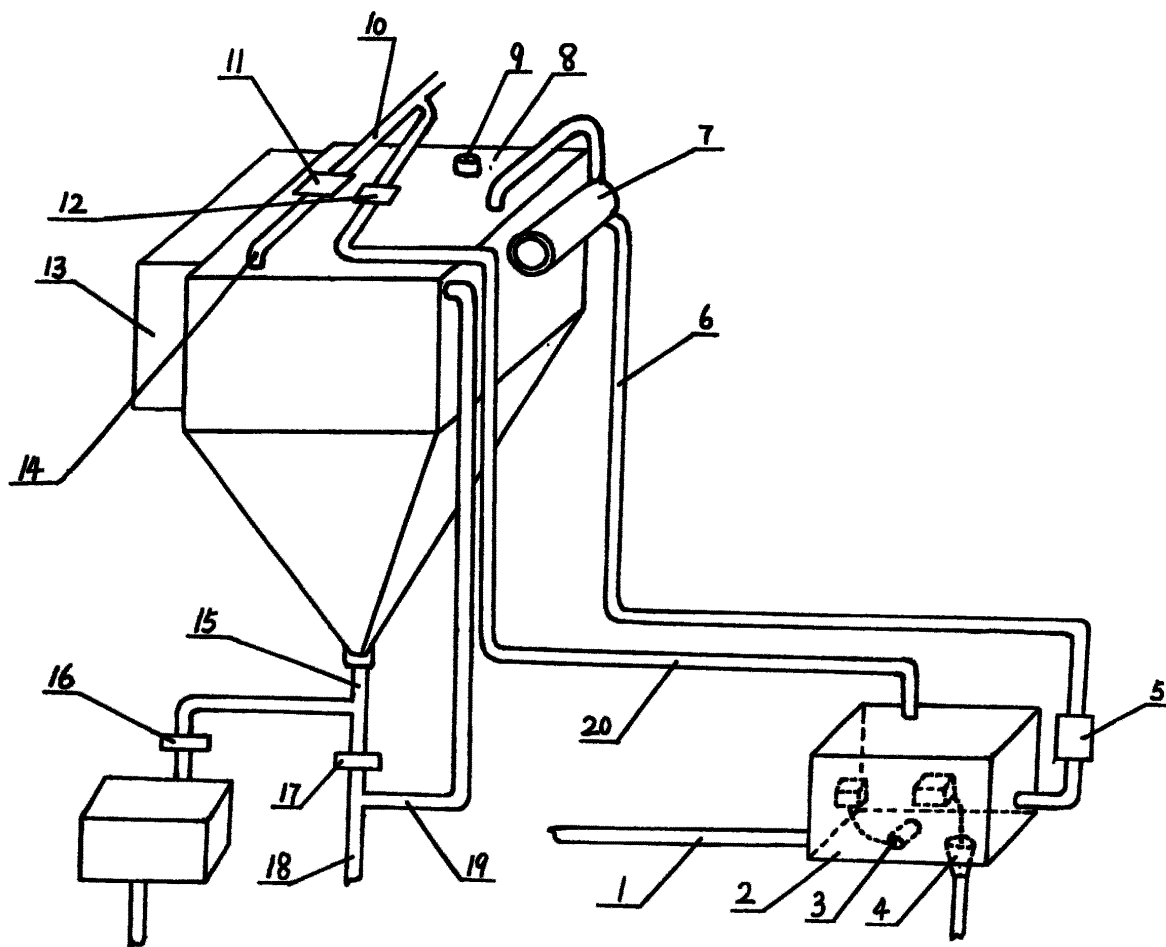
Inventors

SUN XIAOLIANG

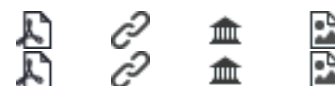
Family 24/25 - FAMPAT - ©Questel

Title

(CN1300419C)

Domestic waste **water** secondary utilization device**Images****Publication numbers with kind code & date**

CN1300419	C	2007-02-14	CN1300419C
CN1651670	A	2005-08-10	CN1651670

**Abstract**

(CN1651670)

The present invention relates to a secondary utilization equipment of domestic waste **water**. Said equipment contains the following main components: **water** heater, **water**-collecting pipe, **water**-recovering pipe, **water** pump, **water** storage tank, filtering net, non-return valve, overflow pipe, flushing valve, flushing pipe and **sensor**. Said invention also provides the assembling mode of all the above-mentioned components, its structure is compact, and can save **water** by about 80%.

Inventors

YANG ZHONG

Family 25/25 - FAMPAT - ©Questel

Title

(CN104295448)

All-weather clean energy comprehensive electricity generating and energy saving method and facility manufacturing method thereof

Publication numbers with kind code & date[CN104295448](#)

A

2015-01-21

CN104295448

**Abstract**

(CN104295448)

The invention discloses an all-weather clean energy comprehensive electricity generating and energy saving method and a facility manufacturing method. In ten inventions, having at least one identical or corresponding specific technical characteristic and related to the total inventive concept, of solar gallery buildings, through graphene series facilities under solar gallery buildings, in a land field, a zero-carbon environment-friendly safe type raft-shaped basic-framed-tube-structured huge building group of a universal wind energy tower shape is established and new energy automobiles and trains are manufactured, wherein cheap wind power solids are established, photoelectric benzene expansion optical fibers are manufactured, lightning is utilized firstly for supplying power externally, various spaces are shared through building three-dimensional afforesting, and three-dimensional energy collection is achieved; in a **water** field, deep **water** self-floating buildings of a super steel concrete frame-tube structure (preferably, complete steel plates are adopted) are built, the deep **water** self-floating buildings are connected in series to form a global ocean **water** and electricity and agriculture and forestry extraction traffic network and a large lake and reservoir **water** and electricity and agriculture and forestry dredging dam **water level** traffic network, wherein the deep **water** automatic floating buildings are free of influences of earthquakes, tsunamis and wars, the Red Cross can rescue people in all-weather conditions; in a space field, multiple receiving and transmitting solar towers are first established on the equator of the earth and the equator of the moon, the receiving and transmitting solar towers are connected in series to operate in a timed mode in the specific direction and transmit power to the whole world through graphene cables which are all packaged with colored insulating films.

Inventors

XIONG LINGYUN

XIONG YING

ZHAO JING

Latest standardized assignees - inventors removed

ZHANG MENGLU