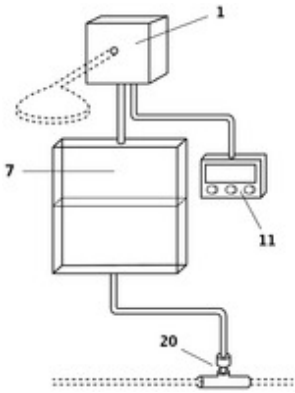
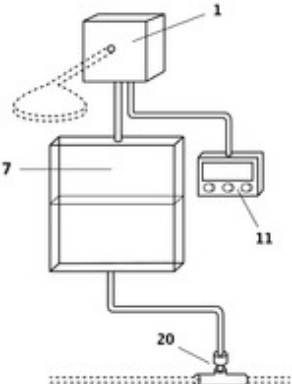
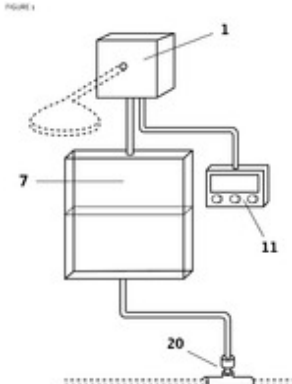
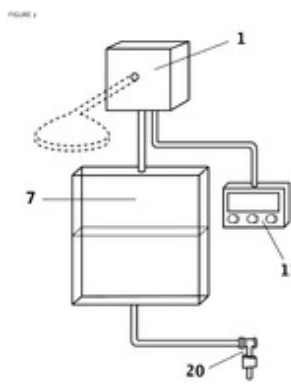
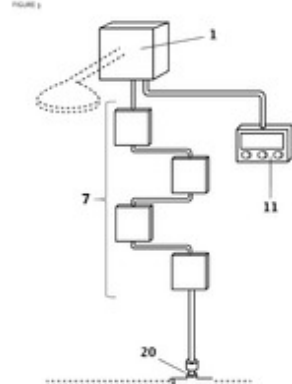
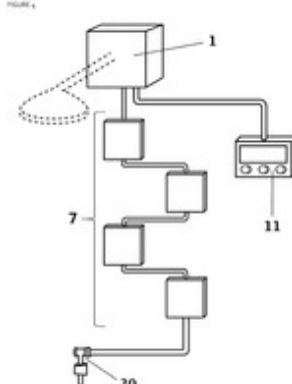
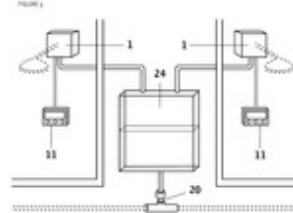
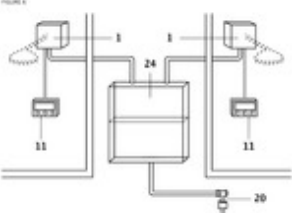
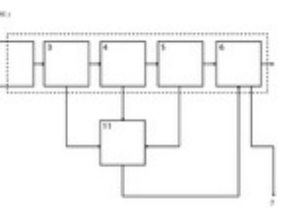
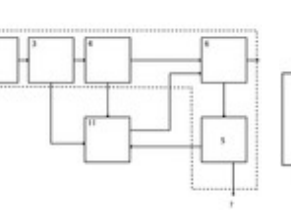
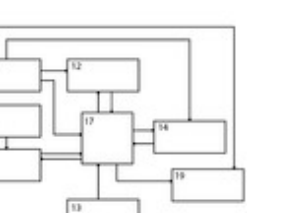


Patent families - 11 results

#	 	Title	Publication number	Publ. date	Applicant/Assignee			
1.		Automated device for saving shower water	EP3613907	2020-02-26	 J E KETESI		100 %	
					CORTES, JORGE EDUARDO			
The invention relates to a water-saving device which is fully automated and comprises a complete electronic control system, the possibility of connection to the aqueduct supply network and a hydraulic generator for saving energy. The device of the invention corresponds with a modular system that optionally reduces the water flow of the shower to 50% and diverts the other 50% to the storage tank, by means of the electronic interface. The device of the invention is applicable in the construction industry.								
								
								
								
								
								
								
								
								
								
								
								

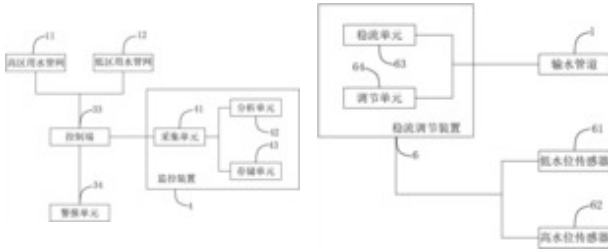
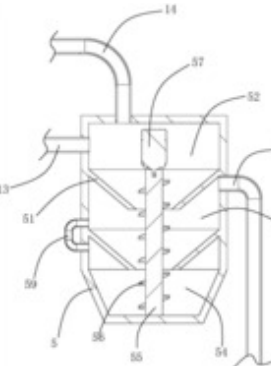
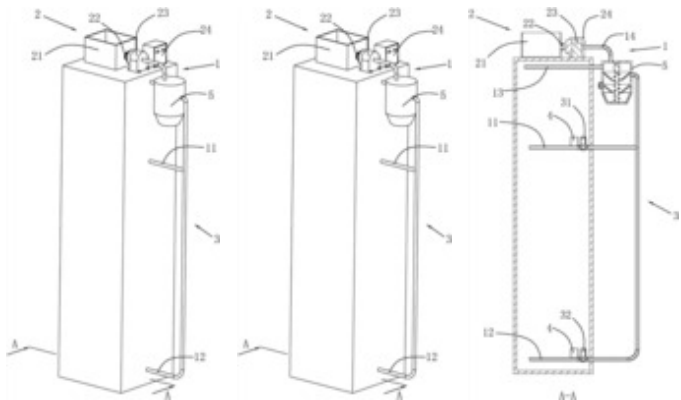
2. Ecological intelligent building green water and power supply system CN108457333

2018-08-28

NANTONG ZHONGNAN
CONSTRUCTION EQUIPMENT
INSTALLATION

78 %

The invention discloses an ecological intelligent building green water and power supply system, and relates to the fields of water resource development and renewable resource utilization, aiming at solving a problem that reclaimed water supply systems have difficulty in achieving good utilization of rainwater resources. The ecological intelligent building green water and power supply system is characterized by comprising a water conveying pipeline for leading in and leading out rainwater and domestic sewage and adjusting obtained reclaimed water, a power supply sub-system and a water supply sub-system; the rainwater and the domestic sewage are filtered and purified, so that the reclaimed water, which is lead out, conforms to national reclaimed water **reuse** standard; electric power can be supplied via the power supply sub-system; real-time water consuming data can be detected via the water supply sub-system and can be compared with corresponding peak and trough water consuming data, so that water consuming data can be predicted out in advance and water consuming supply amounts in peak and trough periods can be deployed out; therefore, full use of the rainwater and the domestic sewage can be achieved and resource waste can be avoided; and the ecological intelligent building green water and power supply system conforms to an environmental protection concept of green-going and energy-saving.



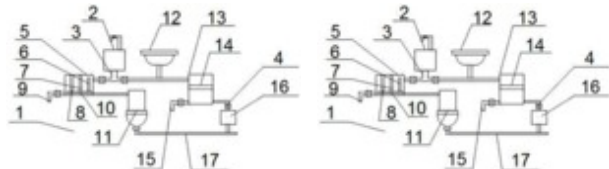
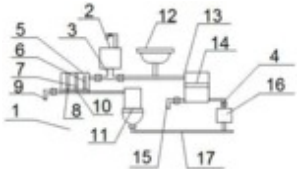
3. Household water **recycling** apparatus CN108265793

2018-07-10

DING HAORAN

75 %

The invention discloses a household water **recycling** apparatus, which comprises a body, wherein the body comprises a washing-vegetable tank, a washing-face tank, conduction pipes and valves, wherein the bottom portion of the washing-vegetable tank is provided with the conduction pipe, the conduction pipe arranged on the bottom portion of the washing-vegetable tank is connected to a treatment box, a baffle is arranged inside the treatment box, the upper surface of the baffle is respectively provided with a separation plate, a sponge layer and an active carbon layer, the side edge of the treatment box is provided with a first water outlet, the conduction pipe arranged on the bottom portion of the washing-face tank is communicated to a water storage box, the left side of the water storage box is provided with a second water outlet, the water storage box is connected to a power generator through the conduction pipe, the treatment box is connected to a toilet through the conduction pipe, and the bottom portion of the toilet is connected to a drain pipe. The household water **recycling** apparatus of the present invention has advantages of reasonable structural design, good water saving effect, convenient use and the like.



4.

Domestic wastewater **recycling** method and device

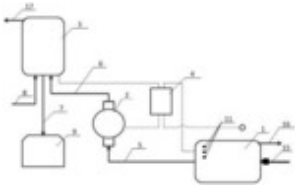
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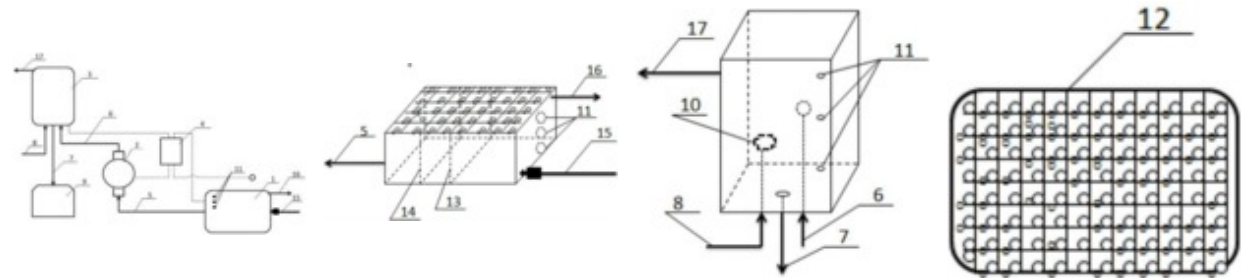
2016-08-31

LI YUNHONG

75 %

The invention relates to a domestic wastewater **recycling** method and device. The problem that existing domestic wastewater is directly discharged into a sewer and is not recycled is mainly solved. The system is characterized in that a clean water controller and three signal generators are connected in a water tank; the two sides of a wastewater collecting pond are connected with a wastewater pipe and a water outlet pipe respectively, an oil-water separator, a filter and the three signal generators are connected in the wastewater collecting pond, the water tank is connected with a water pump through a water supply pipeline, the water pump is connected with the wastewater collecting pond, and the water tank is connected with a clean water pipeline through the clean water controller. The **recycling** method includes the steps that domestic wastewater enters the wastewater collecting pond, and oil, water and impurities are separated through the oil-water separator and the filter; the water pump is started by a microcomputer intelligent controller through signals, filtered wastewater is supplied to the water tank through the water outlet pipe. By means of the domestic wastewater **recycling** method and device, the domestic water is recycled after being treated, energy consumption is reduced, and precious water resources are saved.





5.

Three-dimensional convenient crossed automatic circulation water-saving device

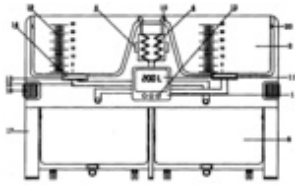
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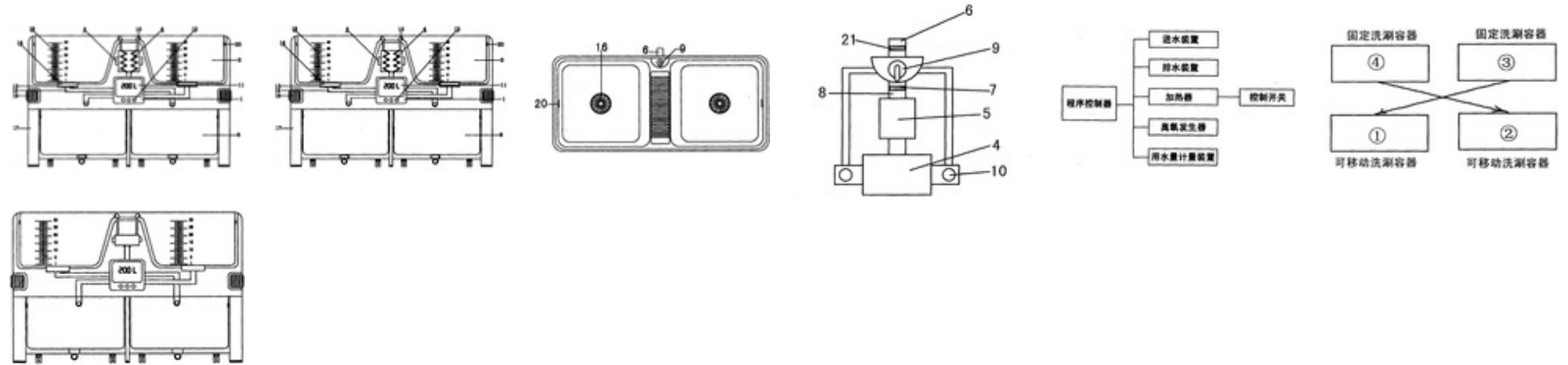
2011-03-30

LI SHOULIN

68 %

A three-dimensional convenient crossed automatic circulation water-saving device comprises a programmable controller, a water inlet device, water drainage devices, two fixed washing containers, two movable washing containers and an ozone generator. The programmable controller is in circuit connection with the water inlet device, the water drainage devices and the ozone generator, the ozone generator is disposed on the water inlet device, the water inlet device comprises a water inlet, a water inlet valve, a water inlet pipe, a cold and hot water control switch and a water injector, the water inlet is communicated with the water injector through the water inlet pipe, the two movable washing containers are fixed below the two fixed washing containers, the fixed washing containers are in cross communication with the movable washing containers via pipes, the bottoms of the fixed washing containers and the bottoms of the movable washing containers are provided with the water drainage devices, and each water drainage device comprises a water drainage opening, a water drainage valve and a water drainage pipe, and the water drainage opening is connected with the water drainage pipe. The three-dimensional convenient crossed automatic circulation water-saving device automatically realizes **recycling** of water under programmed control, is high in water-saving quantity, thoroughly separates the clean washing containers from the dirty washing containers, and is high in cleaning degree.





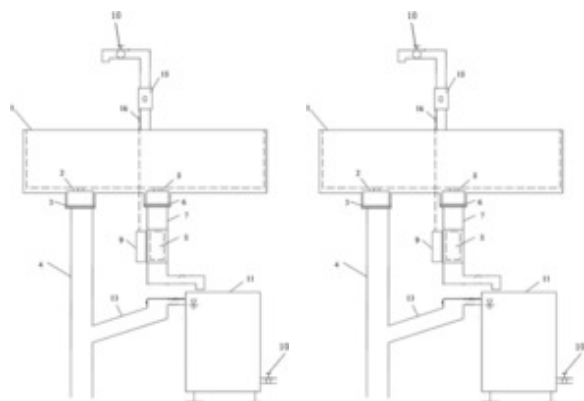
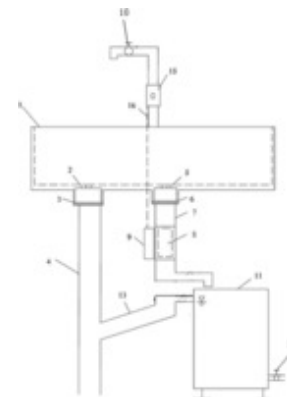
6. Kitchen water conservation, power saving device CN205999985

2017-03-08

CHEN TINGHAO

67 %

The utility model relates to a water conservation, power saving device, especially a kitchen water conservation, power saving device. The utility model discloses a kitchen sink is provided with sewage port and clear water mouth in the bottom of kitchen sink, is connected with sewage pipe and clean water pipe below sewage port and the clear water mouth respectively, and sewage port is last to be furnished with dirty water screen and sewage port stopper, and being furnished with clearly on the clear water mouth, water screen fills in with the clear water mouth, be provided with the water tank under clean water pipe's the export, the overflow mouth has been arranged on the upper portion of water tank, is connected with the overflow pipe on the overflow mouth, and the lower extreme of overflow pipe is connected on the sewage pipe, and the bottom of water tank is provided with outlet pipe and tap. Install the microgenerator in clean water pipe, microgenerator and electrical connections battery, the heater electricity on the running water water pipe of battery and kitchen sink top is connected. It can wash water recycle to the kitchen, utilizes the hydroenergy electricity generation, to the power supply of the heater on the running water water pipe of kitchen sink top, the effect of play the water conservation, economizing on electricity.



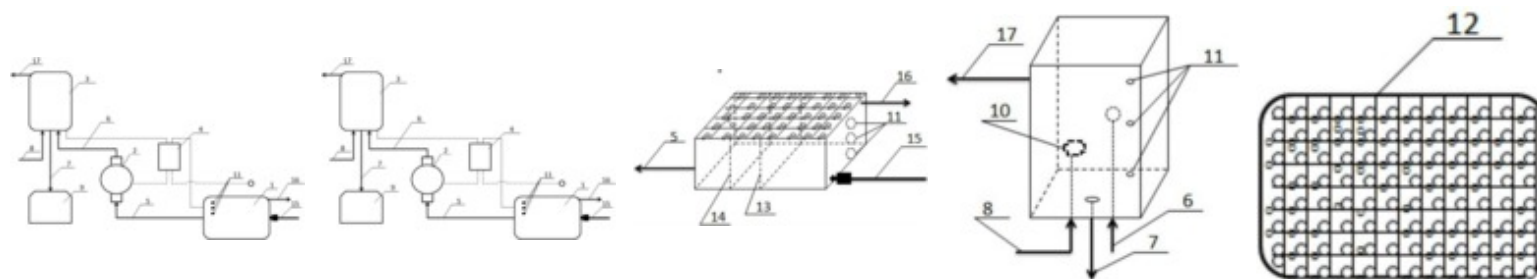
7. Sanitary wastewater recycling device CN205822363

2016-12-21

LI YUNHONG

64 %

The utility model relates to a sanitary wastewater **recycling** device. Mainly solve current sanitary wastewater and directly discharged the problem that sewer pipe does not have recycle. Its characterized in that: the water tank inscription has water controller and 3 signal generator clearly, waste pipe and outlet pipe are connected to collection wastewater disposal basin both sides, and internal connection has oil water separator, filter, 3 signal generator, the water tank passes through sail pipeline connection water pump, and the collection wastewater disposal basin is connected to the water pump, and the clean water pipe line is connected through clear water controller to the water tank. This sanitary wastewater **recycling** device handles the back recovery with domestic water and recycles, energy saving consumption and valuable water resource.



8.

Dichotomous pipeline does not have energy consumption water reuse device based on house building residence

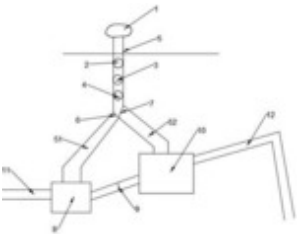
CN205382526

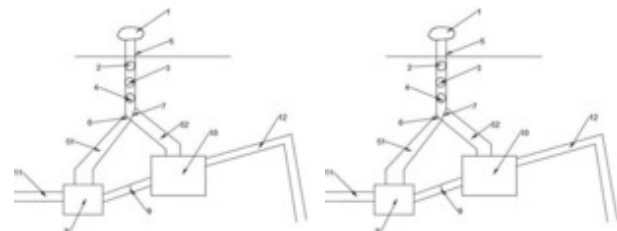
2016-07-13

NORTH CHINA ELECTRIC POWER UNIVERSITY

64 %

The utility model discloses a dichotomous pipeline does not have energy consumption water **reuse** device based on house building residence, including vegetable sink, filter screen, shell fragment, generator, pipeline, controller, closetool and storage water tank, the controller includes first control ware, the second controller and third controller, and the vegetable sink lower extreme links to each other with the pipeline, installs filter screen, shell fragment and generator in proper order extremely down from last in the pipeline, and pipeline and first minute pipeline junction are provided with the first control ware, and pipeline and second divide the pipeline junction to be provided with the second controller, are provided with the third controller between closetool and the storage water tank, install level sensor in the closetool. The device reasonable in design reforms transform on original house basis, has reduced use cost, the device's part production simple process easily makes, and the fault rate is low, and operating stability is good, the device can measure by the present urban water use of greatly reduced, reaches water -saving purpose, accords with energy -conserving and environment - protective requirement, excellent in use effect.





9.

Reusable water collecting tank

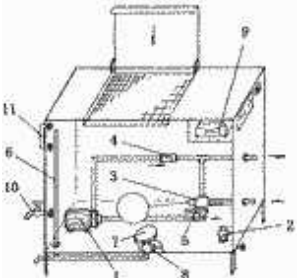
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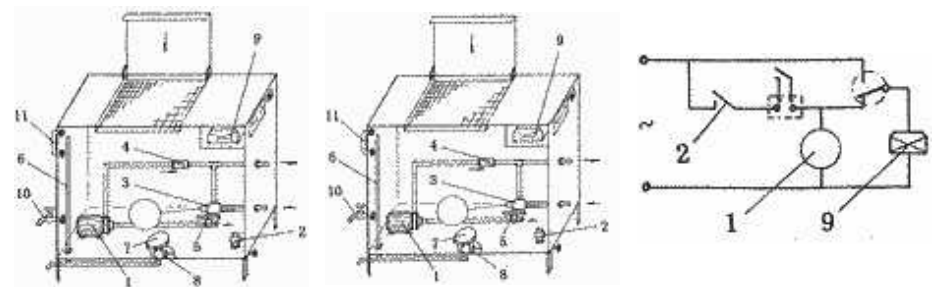
2012-10-17

Wang Jiefu

58 %

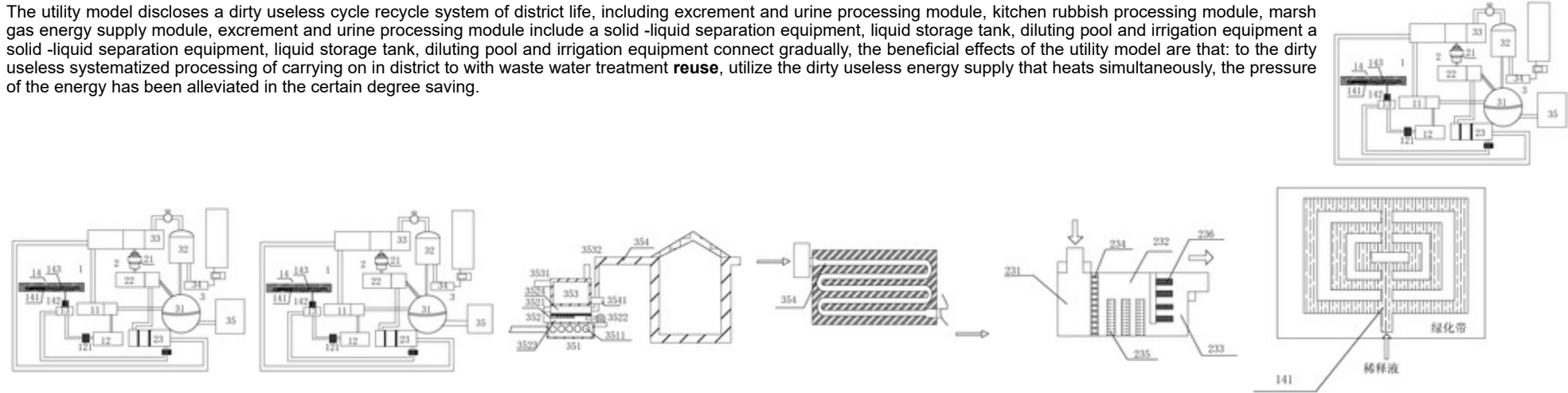
The patent refers to the field of 'domestic plumbing installations amd sinks'. The invention discloses a reusable water collecting tank which is a wall cabinet type water collecting tank body suitable for household water using condition, and the device is provided with components such as a water pump, a low water level limit switch, a float valve, a check valve, a dirty discharge valve, and an ozone generator, and devices such as an overflow pipe, a water filter screen and an external water level detecting switch, to the components and the devices form a household electric appliance apparatus having water saving and water preparation ensuring functions in collecting, storing, supplying water and processing secondary reused water. The reusable water collecting tank is suitable for domestic toilet in order to replace the clear tap water used for flushing, washing and on the like, so that the tap water reusing rate is enhanced, the living water consumption is reduced, and the water saving action is developed. The reusable water collecting tank is further suitable for homes in areas short in tap water supply and is used for the purpose of ensuring the water preparation, such as collecting living drinking water. The reusable water collecting tank has the characteristics of the household electric appliance product which is suitable for mass industrial product.





10.	Dirty useless circulation energy supply system of district life	CN205116269	2016-03-30	CHONGQING GUANGXU TECHNOLOGY	55 %
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The utility model discloses a dirty useless cycle recycle system of district life, including excrement and urine processing module, kitchen rubbish processing module, marsh gas energy supply module, excrement and urine processing module include a solid -liquid separation equipment, liquid storage tank, diluting pool and irrigation equipment a solid -liquid separation equipment, liquid storage tank, diluting pool and irrigation equipment connect gradually, the beneficial effects of the utility model are that: to the dirty useless systematized processing of carrying on in district to with waste water treatment **reuse**, utilize the dirty useless energy supply that heats simultaneously, the pressure of the energy has been alleviated in the certain degree saving.



11.	Community domestic wastewater and waste circulating energy supply system	CN105297830	2016-02-03	GUANGDONG CHUANGSHENG HOLDING GROUP	51 %
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The invention discloses a community domestic wastewater and waste circulating energy supply system. The system comprises an excrement processing module, a kitchen garbage processing module and a biogas energy supply module. The excrement processing module comprises a first solid-liquid separating device, a liquid storage pool, a diluting pool and an irrigation device. The first solid-liquid separating device, the liquid storage pool, the diluting pool and the irrigation device are sequentially connected. The system has the advantages that community wastewater and waste are systemically processed, wastewater is processed and repeatedly used, wastewater and waste are used for heat supply and energy supply, and energy pressure is relieved to a certain extent.

