

Diego Gonzalez

1) Family number: 58870153 (US2016230376 AA)

Title: TOILET WATER SAVING SYSTEM USING WASTE WATER

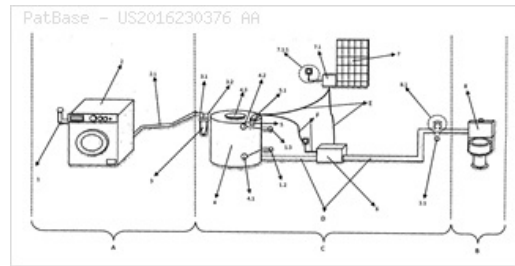
Abstract: This invention is a hygienic water saving system which can be applied to all washing machines and toilets and evaluates waste water produced by washing machines in toilets and provides water-saving in toilet siphons, produces electrical energy through solar panel.

Classifications:

International (IPC 8-9): E03B1/04 E03D5/00

CPC: E03B1/042 E03B1/044 E03B2001/045 E03D5/003

US: 1/1 4/353



Family:

Publication number	Publication date	Application number	Application date
TR201603221 B	20200221	TR20160003221	20140905
TR201603221 T1	20190321	TR20160003221T	20140905
US2016230376 AA	20160811	US20140021426	20140905
WO15047201 A1	20150402	WO2014TR00331	20140905

Priority:

TR20130010818 20130912 WO2014TR00331 20140905

Probable Assignee: TORAMAN OEZGOER EMRE

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Inventor(s): (std): OEZGOER EMRE TORAMAN ; TORAMAN OEZGOER EMRE

Agent(s): ERDEM KAYA; METE MERCAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL QA RO RS RU SZ SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TN TR TT TZ UA UG UY UZ VC VN ZA ZM ZW

2) Family number: 67958685 (CN206784521 U)

Title: DOMESTIC WASTE WATER INTELLIGENT CIRCULATION UTILIZES SYSTEM

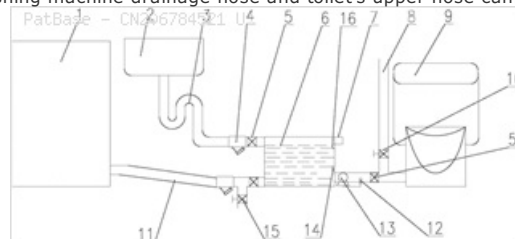
Abstract: The utility model provides a domestic waste water intelligent circulation utilizes system, includes water tank, filter, level sensor I, water pump, pressure sensor, check valve, solenoid valve I, water tank one side is upper and lower to be connected with hand wash sink and washing machine 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.

Classifications:

International (IPC 8-9): E03B11/02 E03C1/264 E03C1/298

E03D5/01

CPC: Y02A20/00



Family:

Publication number	Publication date	Application number	Application date
CN206784521 U	20171222	CN201720267358U	20170317

Priority:

CN201720267358U 20170317

Probable Assignee: UNIV SCIENCE AND TECHNOLOGY LIAONING

Assignee(s): (std): OF SCIENCE AND TECHNOLOGY LIAONING UNIV : UNIV SCIENCE AND TECHNOLOGY LIAONING

3) Family number: 42073843 (ES2303401 AA)

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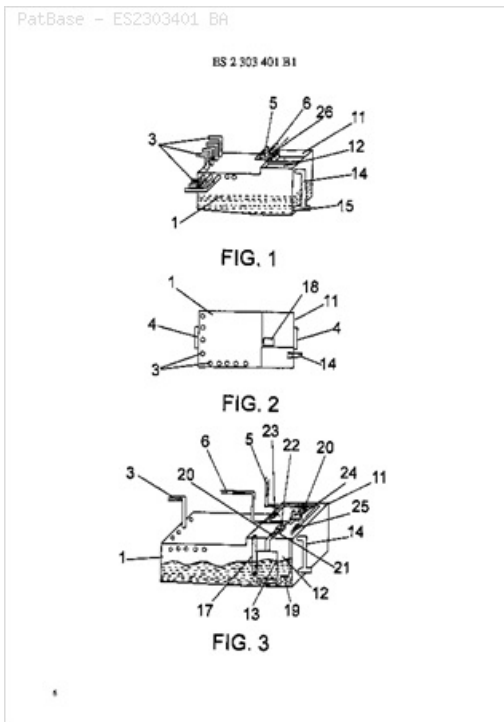
Title: FAMILY COLLECTOR OF WASTEWATER (MACHINE-TRANSLATION BY GOOGLE TRANSLATE, NOT LEGALLY BINDING)

Abstract: The family sewage collector is formed from a tank (1) embedded in the pavement of a bathroom, allowing to collect, through corresponding pipes (3), the gray water used in the various sanitary appliances of a house, such as a washbasin, bathtub, bidet, shower, sink, dishwasher or washing machine. These gray waters are stored in the tank (1) which inside incorporates a diffuser (17) with pellets for elimination of bacteria and provide a coloring of the waters, so that when required, for example, water in the cistern (7) of a toilet, the water stored in the tank (1) is driven by means of a pump (13), passing through a filter. The excess water received in the tank (1) is eliminated through an overflow (14) which, through a pipe (15), communicates with the general outlet of sanitary water (16). The purpose of the collector is to allow the gray water used in the different sanitary appliances of a house to be reused. (Machine-translation by Google Translate, not legally binding)

Classifications:

International (IPC 8-9): C02F1/50 E03B1/00 E03B1/04 E03B7/00 E03B7/04 E03C1/00 E03C1/01 E03D5/00 E03D5/01

CPC: E03B1/04 E03B7/04 E03C1/01



Family:

Publication number	Publication date	Application number	Application date
ES2303401 AA	20080801	ES20050001433	20050614
ES2303401 BA	20090612	ES20050001433	20050614

Priority:

ES20050001433 20050614

Probable Assignee:

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Assignee(s): (std):

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Assignee(s):

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Inventor(s): (std):

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Inventor(s):

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4) Family number: 20742624 (US6314590 BA)

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Title: DRAINAGE DEVICE

Abstract: A drainage device (1) for a waste water outlet (12) includes an outer tubular member (102) adapted to fit within the waste water outlet (12). An inner tubular member (103) is located within the outer tubular member (102). The interior of the inner tubular member (103) provides a first outlet and a second outlet is defined by the external wall of the inner tubular member (103) and the internal wall of the outer tubular member (102). A valve member (108, 109) is movably mounted with respect to the inner and outer tubular members (102, 103) for movement between a first position in which the second outlet is obturated and the first outlet is open to permit a liquid to flow therethrough, and a second position in which the second outlet is open to permit liquid to enter the second outlet.

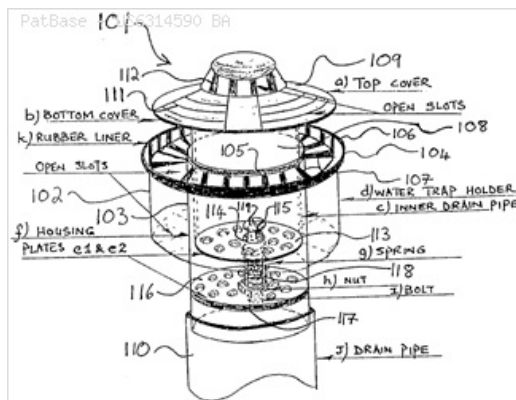
Classifications:

International (IPC 8-9): E03B1/00 E03B1/04 E03C1/22 E03C1/23 E03D5/00

International (IPC 1-7): E03C1/122 E03C1/28 E03F5/04

CPC: E03B1/04 E03B1/042 E03B2001/045 E03C1/23 E03C1/2306 E03D5/003 Y10T137/6988

US: 137/362 4/286 4/287 4/597 4/665



Family:

Publication number	Publication date	Application number	Application date
AU199937390 A1	19991108	AU19990037390	19990416
AU199937391 A1	19991108	AU19990037391	19990416
US6314590 BA	20011113	US20000673711	20001020
WO9954560 A1	19991028	WO1999SG00032	19990416
WO9954559 A1	19991028	WO1999SG00033	19990416

Priority:

SG19980000770 19980421 SG19980003180 19980821 WO1999SG00032 19990416
 WO1999SG00033 19990416

Probable Assignee: LEE KOK WING

Assignee(s): (std): LEE KOK WING

Assignee(s): KOK WING LEE

Inventor(s): (std): LEE KOK WING

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Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

5) Family number: 62288575 (CN205205914 U)

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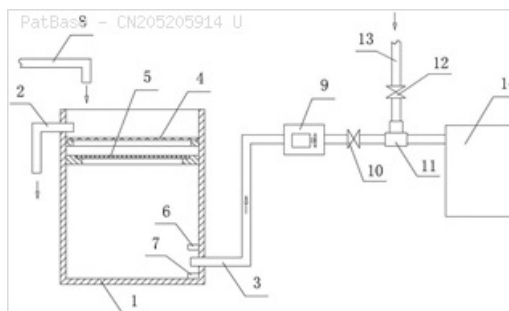
Title: WATER TREATMENT DEVICE

Abstract: 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.

Classifications:

International (IPC 8-9): B01D29/03 B01D29/58 E03B1/04 E03D5/00

CPC: Y02A20/30



Family:

Publication number	Publication date	Application number	Application date
CN205205914 U	20160504	CN201521032514U	20151214

Priority:

CN201521032514U 20151214

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Inventor(s): (std): HUA HONGYAN ; REN BAOJIAN ; ZHANG ZHEN ; ZHAO SONG