

Yenny Campos

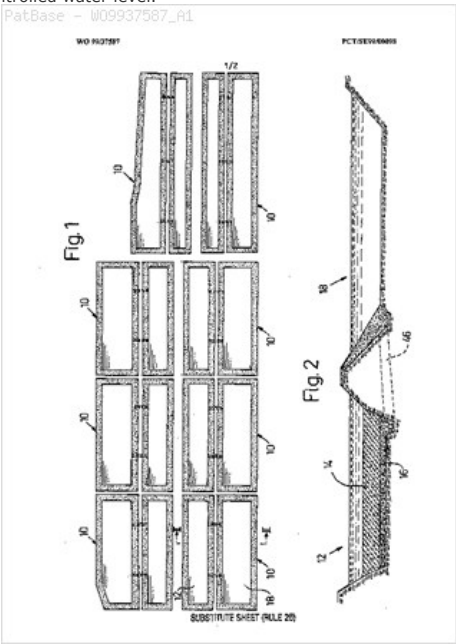
Search history

Search 1: TAC=(wetland and leachate) (Results 16)

Title: METHOD AND DEVICE FOR CLEANING OF **LEACHATE**

Abstract: A method and a device for cleaning **leachate**, the **leachate** after a collecting stage being conducted to several treatment stage, whereupon the **leachate** is led to a **wetland** system. This system comprises a sorption and a retention stage. During the sorption stage the **leachate** is taken to at least one dam (10) composed of two portions, one portion (12) consisting of a plant bed and/or a sorption bed, through which the water passes to another portion. The water is after the passage through the plant and sorption bed transported from the first portion (12) to the retention stage in the other portion (18) consisting of an open basin with a controlled water level.

Classifications:
International (IPC 8-9): C02F3/32 (Advanced/Invention); C02F3/32 (Core/Invention)
International (IPC 1-7): C02F1/00 C02F3/00 C02F9/00
CPC: Y02W10/18 C02F3/327 C02F2103/06
European: C02F3/32B M02F103/06



Family:

Publication number	Publication date	Application number	Application date
AT262490 E	20040415	AT19990905395T	19990125
AU199925550 A1	19990809	AU19990025550	19990125
DE69915806 D1	20040429	DE19996015806	19990125
DE69915806 T2	20050310	DE19996015806T	19990125
DK1056688 T3	20040726	DK19990905395T	19990125
EP1056688 A1	20001206	EP19990905395	19990125
EP1056688 B1	20040324	EP19990905395	19990125
ES2218993 T3	20041116	ES19990905395T	19990125
SE518832 C2	20021126	SE19980000173	19980123
SE9800173 A	19990724	SE19980000173D	19980123
SE9800173 A0	19980123	SE19980000173	19980123
SE9800173 L	19990724	SE19980000173	19980123
WO9937587 A1	19990729	WO1999SE00098	19990125

Priority:
SE19980000173 19980123 WO1999SE00098 19990125

Probable Assignee: NCC AB

Assignee(s): (std): GLOBE WATER AB ; GLOBE WATER AB STOCKHOLM ; NCC AB ; SCHWALBE PONTUS

Assignee(s): GLOBE WATER STOCKHOLM AB

Inventor(s): (std): SCHWALBE PONTUS

Inventor(s): PONTUS SCHWALBE

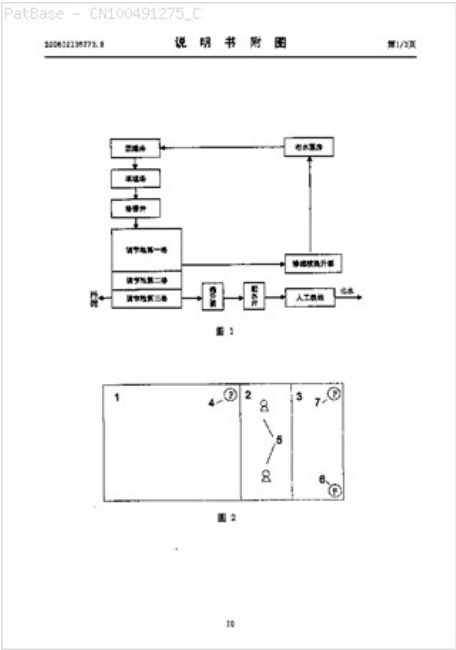
Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ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

Title: Circulated backfilling and artificial **wetland** combined **leachate** processing method and its facility

Abstract: Source: CN1994940A The invention discloses a percolation processing method through combined circulating recharge and manual **wetland**, which comprises the following steps: adopting grid well to remove most suspension and impurity in the percolation; making partial rubbish percolation in the first grid of adjusting pond into the third grid to predispose to irrigate the artificial **wetland**; remaining effluent in the adjusting pond for 15-30d. The percolation processing equipment contains grid well, adjusting pond, circulating recharge system and artificial **wetland** system, wherein the adjusting pond is optimized into three grids; the rotary grid is set in the grid well; the water outlet of grid well connects the first grid of adjusting pond directly.

Classifications:

International (IPC 8-9): C02F1/00 C02F9/14 (Advanced/Invention);
C02F1/00 C02F9/14 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN100491275 C	20090527	CN200610136773	20061130
CN1994940 A	20070711	CN200610136773	20061130

Priority:

CN200610136773 20061130

Probable Assignee: UNIV HUNAN

Assignee(s): (std): HUNAN UNIV ; UNIV HUNAN

Assignee(s): HUNAN UNIVERSITY

Inventor(s): (std): ZHENGYONG XU ; XU ZHENGYONG YANG ; RONGJUAN WANG ; GUANGMING ZENG ; CHAOHUI YANG

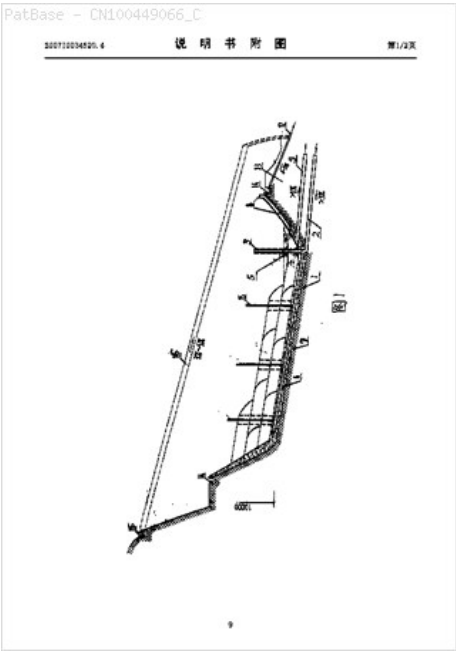
Inventor(s): ZHENGYONG YANG XU ; XU ZHENGYONG ; WANG RONGJUAN ; ZENG GUANGMING ; YANG CHAOHUI

Title: Shunting drainage method used in treatment **leachate** of garbage sanitary landfill and rainwater in storeroom

Abstract: Source: CN101016751A A diverting flow method for dealing with bleeder fluid and rain-water inside a warehouse in a landfill waste site installs a vertical drainage device for the bleeder fluid inside the warehouse, accordingly installs a vertical drainage pipe for the bleeder fluid forward a inner slope of the warehouse dam, wherein a fan-shaped radiation drainage arm closed a impervious layer is connected with the upper end of the vertical drainage pipe, and a main drainage pipe for the bleeder fluid bedded in a crushed drainage layer is also connected with the vertical drainage pipe whose upper end is equipped with a delivery line for bleeder fluid via the warehouse dam to the bleeder fluid collection pool. Then a rain-water drainage arrangement is arranged on the waste warehouse dam, accordingly a honeycomb rain-water collection pipe is arranged on the inner slope of the warehouse dam. The upper end of the pipe is up to the warehouse bottom and welding connected with the rain-water delivery pipe via the warehouse dam in an acute angle, and then the rain-water delivery pipe leads the areas filled with rain-water collection pool or biogeography **wetland**. The invention has advantages that not only the rain-water and the waste are delivered and collected separately, but also the bleeder fluid, the processing cost, and the damage of the bleeder fluid to the prevention film are reduced, and the economic profit and the environmental benefit are improved.

Classifications:

International (IPC 8-9): E03F1/00 E03F5/00 (Advanced/Invention); E03F1/00 E03F5/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN100449066 C	20090107	CN200710034520	20070309
CN101016751 A	20070815	CN200710034520	20070309

Priority:

CN200710034520 20070309

Probable Assignee: ZHONGE FU

Assignee(s): (std): FU ZHONGE ; ZHONGE FU

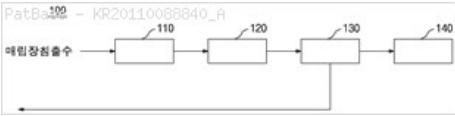
Inventor(s): (std): FU ZHONGE ; ZHONGE FU

Title: TREATMENT METHOD OF **LEACHATES** FROM LANDFILL AND DEVICE THEREOF

Abstract: Source: KR20110088840A PURPOSE: A method for processing landfill **leachate** and an apparatus for the same are provided to improve denitrification effect and reduce non-degradable chemical oxygen demand(COD) without the separate addition of a chemical. CONSTITUTION: The introduction amount of **leachate** is controlled by introducing the **leachate** in a flow controlling bath(110). The **leachate** is transferred to a biological reaction bath(120) in which an anoxic-anaerobic condition is alternated. The **leachate** is nitrated to reduce organic materials and nitrogen load. Floats and precipitates contained in the **leachate** are eliminated by being transferred to a collecting bath(130). The floats and the precipitates are re-transferred to a landfill. The **leachate** is transferred to a downward flow artificial **wetland**(140) to eliminate COD and NO_xN.

Classifications:

International (IPC 8-9): C02F103/06 C02F3/06 C02F3/28
C02F3/32 (Advanced/Invention);
C02F103/06 (Advanced/Non-invention)
CPC: Y02W10/18 Y02W10/15



Family:

Publication number	Publication date	Application number	Application date
KR101241817 B1	20130314	KR20100008540	20100129
KR20110088840 A	20110804	KR20100008540	20100129

Priority:

KR20100008540 20100129

Probable Assignee: KUNHWA CO LTD

Assignee(s): (std): KUNHWA CO LTD

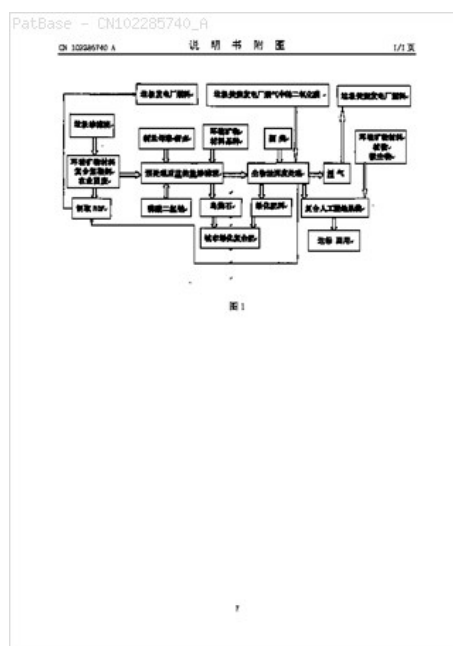
Assignee(s): KUNHWA CO

Inventor(s): (std): CHOI EUI SO ; KANG SHIN HYUN ; YOON HYOUNG HEE

Abstract: Source: CN102285740A

Classifications:

International (IPC 8-9): C02F9/14 (Advanced/Invention)



Publication number	Publication date	Application number	Application date
CN102285740 A	20111221	CN201010203442	20100621

CN201010203442 20100621

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

Title: SEWAGE AND SLUDGE TREATMENT METHOD

Abstract: Source: CN102476900A The invention particularly relates to a sewage and sludge treatment method, which realizes treatment of sewage and sludge and **leachate** thereof by the aid of an artificial **wetland** ecological system. The technical scheme includes that **wetland** plants are planted in a vertical flow artificial **wetland**, sewage and sludge are intermittently discharged into the surface of the artificial **wetland** with a special structure, and a liquid portion of the sewage and sludge enters a water collecting pipe on the lower portion of the **wetland** after passing through a sludge layer and a **wetland** packing layer and then is discharged. In the process, pollutant in the liquid is effectively purified by the **wetland**. A sludge solid portion is stopped on the surface of the **wetland**, and is reduced and stabilized by the aid of a self-digestion function and ecological activities of the **wetland**. The solid sludge portion is removed regularly, composting is carried out, and the **wetland** plants are used as additives for the composting. The sewage and sludge treatment method is simple in process, convenient in operation management and low in operation cost, and saves investment, the sewage and the sludge are reduced, stabilized, harmless and recycled after being treated by the system, and the sewage and sludge treatment method is wide in application prospect.

Classifications:

International (IPC 8-9): C02F11/02 C05F7/00 (Advanced/Invention)

CPC: Y02W10/37

Family:

Publication number	Publication date	Application number	Application date
CN102476900 A	20120530	CN201010552798	20101122

Priority:

CN201010552798 20101122

Probable Assignee: DALIAN CHUANGDA TECH TRADE MK

Assignee(s): (std): DALIAN CHUANGDA TECH TRADE MK ; DALIAN CHUANGDA TECHNOLOGY TRADE MARKET CO LTD

Assignee(s): DALIAN CHUANGDA TECHNOLOGY TRADE MARKET CO

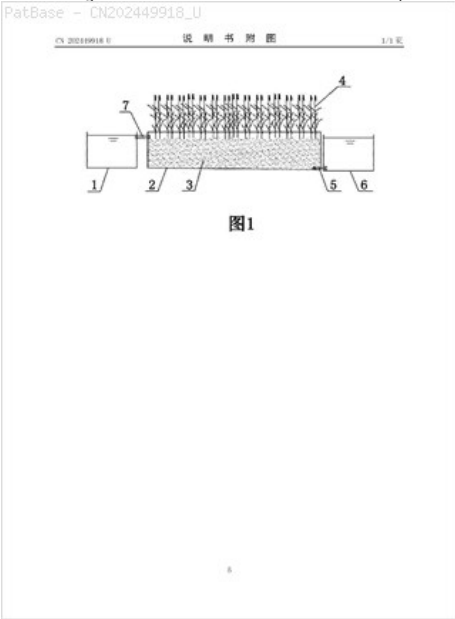
Inventor(s): (std): YANG CHEN

Inventor(s): CHEN YANG

Title: ARTIFICIAL **WETLAND** FOR PROCESSING LIME-ENRICHED ALKALI WASTEWATER

Abstract: Source: CN202449918U The utility model relates to an artificial **wetland** for processing lime-enriched alkali wastewater. The artificial **wetland** for processing lime-enriched alkali wastewater comprises an artificial **wetland** pool body which is internally filled with composite filler. Alkali resistant **wetland** plants are planted on the composite filler. One end of the artificial **wetland** pool body is provided with a water inlet in the upper part and the water inlet is connected with a sedimentation basin through a water pipe. The other end of the artificial **wetland** pool body is provided with a water outlet in the lower part and the water outlet is connected with a clear water reservoir. The filling depth of the composite filler is 30-50cm. With adoption of the artificial **wetland** for processing lime-enriched alkali wastewater, pH value of wastewater, concentration of suspended particulate matter and calcium content can be reduced effectively. The artificial **wetland** for processing lime-enriched alkali wastewater provided by the utility model can be used to process wastewater in the process of building construction, **leachate** of desulfurated solid waste of fire coal and alkali industrial wastewater enriching lime such as dedusting wastewater of a converter of a steel plant.

Classifications:
International (IPC 8-9): C02F3/32 (Advanced/Invention)
CPC: Y02W10/18



Family:

Publication number	Publication date	Application number	Application date
CN202449918 U	20120926	CN201120572373U	20111231

Priority:

CN201120572373U 20111231

Probable Assignee: CHINA STATE CONSTRUCTION CO

Assignee(s): (std): CHINA STATE CONSTRUCTION CO ; CHINA STATE CONSTRUCTION CO LTD ; CHINA STATE CONSTRUCTION ENGINEERING CORP LTD

Inventor(s): (std): ZHONGNAN SONG ; YUNXING SHI ; WENLING WU ; TAO ZHANG ; LIANG HUO ; KE WANG

Inventor(s): HUO LIANG ; WANG KE ; SONG ZHONGNAN ; SHI YUNXING ; WU WENLING ; ZHANG TAO

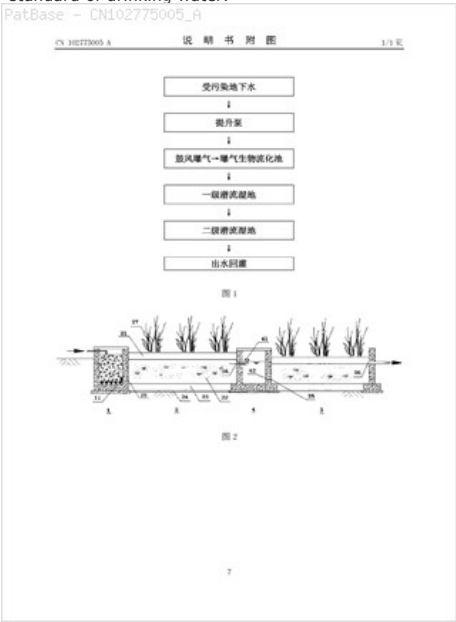
Title: POLLUTED UNDERGROUND WATER DEEP PURIFICATION COMBINED DENITRIFICATION SYSTEM AND PROCESS METHOD

Abstract: Source: CN102775005A The invention relates to a polluted underground water deep purification combined denitrification system, which comprises an aeration biological fluidized tank, primary subsurface flow **wetland** and secondary primary subsurface flow **wetland** in sequential connection. The invention also provides a method adopting the system for purifying the water quality. According to the method, a lifting pump is used for lifting polluted underground water to the aeration biological fluidized tank, most ammonia nitrogen in the polluted water is directly oxidized into nitrate nitrogen under the effect of nitrifiers, sewage enters the primary subsurface flow **wetland**, the rest ammonia nitrogen is further oxidized into nitrate nitrogen under the aerobic condition, then, the sewage enters the secondary subsurface flow **wetland** to complete the denitrification effect under the anaerobic conditions, and the nitrate nitrogen is reduced into nitrogen gas. The system aims at the water quality characteristic of high organic matter and ammonia nitrogen content in underground water polluted by landfill **leachate**, an aeration biological fluidized tank is combined with the constructed **wetland** technology, the ammonia nitrogen removal rate reaches higher than 99 percent after the purification, the water outlet concentration of nitrate is smaller than 5mg/L, and the ammonia nitrogen and nitrate concentration of the polluted underground water after the treatment completely meets the water quality standard of drinking water.

Classifications:

International (IPC 8-9): C02F3/08 C02F3/32 C02F9/14 (Advanced/Invention); C02F3/08 C02F3/32 (Advanced/Non-invention)

CPC: Y02W10/18 Y02W10/15



Family:

Publication number	Publication date	Application number	Application date
CN102775005 A	20121114	CN201210178984	20120601
CN102775005 B	20140219	CN201210178984	20120601

Priority:

CN201210178984 20120601

Probable Assignee: ENVIRONMENTAL PROT RES INST OF LIGHT INDUSTRY

Assignee(s): (std): ENVIRONMENTAL PROT RES INST OF LIGHT IND ; ENVIRONMENTAL PROT RES INST OF LIGHT INDUSTRY ; BEIJING WATER CONSERVANCY PLANNING DESIGNING INST

Assignee(s): BEIJING WATER CONSERVANCY PLANNING DESIGNING INSTITUTE ; ENVIRONMENTAL PROTECTION RESEARCH INST OF LIGHT IND ; ENVIRONMENTAL PROTECTION RESEARCH INSTITUTE OF LIGHT INDUSTRY

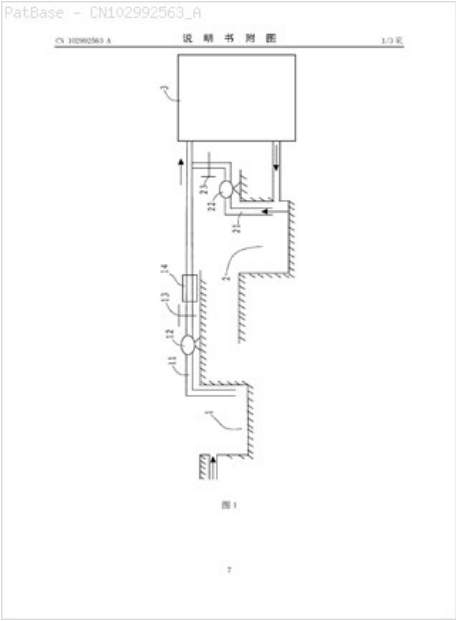
Inventor(s): (std): ZHIGANG XU ; ZHANG QIWEI ; XU ZHIGANG ; XIA GUANGQING ; WENXIA WEI ; WEI WENXIA ; WANG GUOQING ; SHEN LAIXIN ; QIWEI ZHANG ; PEIBIN LIU ; LIU PEIBIN ; LAIXIN SHEN ; GUOQING WANG ; GUANGQING XIA

Title: SEA WATER DESALINIZATION DISCHARGED SLUDGE ARTIFICIAL **WETLAND** TREATMENT SYSTEM AND TREATMENT METHOD THEREOF

Abstract: Source: CN102992563A The invention discloses a sea water desalinization discharged sludge artificial **wetland** treatment system which comprises a sludge buffer pool, a sludge pump, a flow meter and an artificial **wetland**, wherein a sludge pipe is connected between the sludge buffer pool and the artificial **wetland**; the artificial **wetland** comprises a **wetland** pool, a sludge distribution pipe, a water collection pipe as well as a **wetland** plant, a sludge layer, a filler layer and an impermeable layer sequentially arranged in the **wetland** pool from top to bottom; and the sludge distribution pipe is connected with the sludge pipe, and a sludge outlet hole is formed in the sludge distribution pipe. The invention also discloses a treatment method using the treatment system. Through the invention, the sludge treatment using an artificial **wetland** and a reasonably-arranged filler layer integrates sludge concentration, dehydration and degradation, and a series of physical and chemical changes such as dehydration reduction, nitrogen and phosphorus removal of **leachate**, removal of organic matters and heavy metals and the like can be realized so as to realize reduction and harmless treatment on the sludge.

Classifications:

International (IPC 8-9): C02F11/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN102992563 A	20130327	CN201210525882	20121205

Priority:

CN201210525882 20121205

Probable Assignee: UNIV ZHEJIANG OCEAN

Assignee(s): (std): UNIV ZHEJIANG OCEAN ; ZHEJIANG OCEAN UNIV

Inventor(s): (std): SHI YIMIN ; YE JIHONG

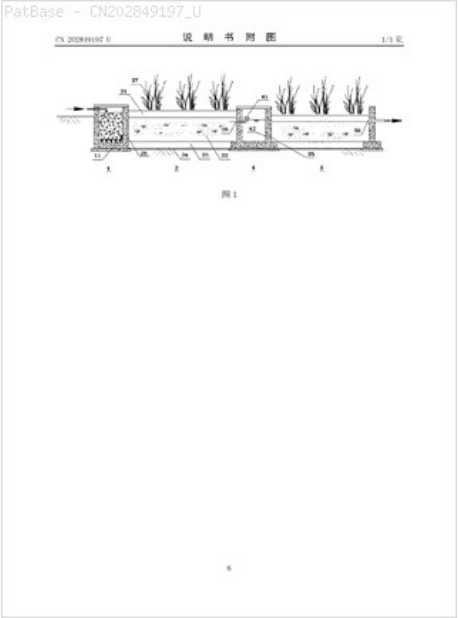
Title: DEEP PURIFICATION AND COMBINED DENITRIFICATION SYSTEM FOR POLLUTED GROUND WATER

Abstract: Source: CN202849197U The utility model relates to a deep purification and combined denitrification system for polluted ground water, comprising an aerobic biological fluidized tank, a primary subsurface **wetland** and a secondary subsurface **wetland** which are sequentially connected. According to the utility model, in the purification process, the polluted ground water is lifted to the aerobic biological fluidized tank by using a lifting pump and most ammonia nitrogen in the polluted water is directly oxidized into nitrate nitrogen in the aeration process under the action of nitrifying microorganisms; sewage enters the primary subsurface **wetland** and the rest ammonia nitrogen is further oxidized into the nitrate nitrogen under the aerobic condition; and then the sewage enters the secondary subsurface **wetland**, the denitrification is completed under the anaerobic condition and the nitrate nitrogen is reduced into nitrogen. According to the utility model, the water quality characteristic that the landfill **leachate**-polluted ground water is high in organic matter content and ammonia nitrogen content is utilized and the aerobic biological fluidized tank and the constructed **wetland** technology are combined, so that the system has the advantages that the ammonia nitrogen removing rate after the purification is up to more than 99 percent, the nitrate effluent concentration is less than 5mg/L and the treated polluted ground water completely meets the water quality standard of drinking water in the aspects of ammonia nitrogen concentration and nitrate concentration.

Classifications:

International (IPC 8-9): C02F3/08 C02F3/32 C02F9/14 (Advanced/Invention); C02F3/08 C02F3/32 (Advanced/Non-invention)

CPC: Y02W10/18 Y02W10/15



Family:

Publication number	Publication date	Application number	Application date
CN202849197 U	20130403	CN201220257233U	20120601

Priority:

CN201220257233U 20120601

Probable Assignee: ENVIRONMENTAL PROT RES INST OF LIGHT IND

Assignee(s): (std): BEIJING INST OF WATER ; ENVIRONMENTAL PROT RES INST OF LIGHT IND

Assignee(s): ENVIRONMENTAL PROTECTION RESEARCH INST OF LIGHT IND

Inventor(s): (std): ZHANG QIWEI ; XU ZHIGANG ; XIA GUANGQING ; WEI WENXIA ; WANG GUOQING ; SHEN LAIXIN ; LIU PEIBIN