

NC2016/0001175
1er examen de fondo

Search history

Search 1: chlorine and dioxide and generator and (remote or control) and real and time (Results 17)

Search 2: 1 and "chlorine dioxide" (Results 12)

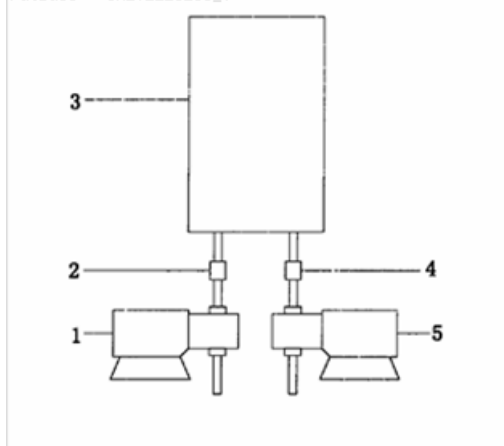
Title: Chlorine dioxide generator with Hall switch

Abstract: Source: CN201228233Y The utility model relates to a chlorine dioxide generator with Hall switches, the generator is formed by sequentially connecting a raw material supply system, a neutralization reaction system, a mixing system, a medicament dosing system and a program control system, and the chlorine dioxide generator is characterized in that two Hall switches are respectively arranged in two flow monitors in the program control system, two Hall switches are respectively arranged at outlets of two metering pumps, and pulse output signal electrical wires of the two Hall switches are connected on a computer for controlling a program. The chlorine dioxide generator has the advantages that the chlorine dioxide generator can carry out the real-time monitoring of the dosing of a medicament, prevent the idle operation of the metering pumps and improve the using performances of the chlorine dioxide generator.

Classifications:

International (IPC 8-9): C01B11/02 C02F1/50
C02F1/76 (Advanced/Invention);
C02F1/50 C02F1/76 (Advanced/Non-invention);
C01B11/00 C02F1/50 C02F1/76 (Core/Invention)

PatBase - CN201228233_Y



Family:

Publication number	Publication date	Application number	Application date
CN201228233 Y	20090429	CN200720099581U	20071228

Priority:

CN200720099581U 20071228

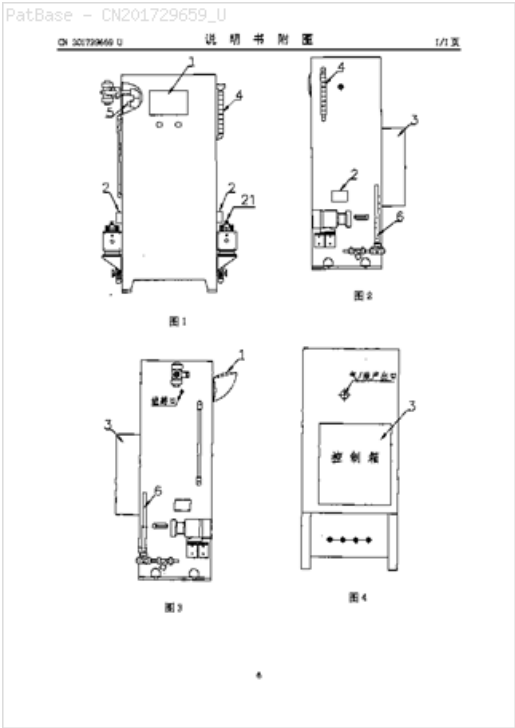
Probable Assignee: TIANJIN ZHENG FANG TECHNOLOGY D
Assignee(s): (std): TIANJIN ZHENG FANG TECHNOLOGY D
Assignee(s): TIANJIN ZHENG FANG TECHNOLOGY DEVELOPMENT CO
Inventor(s): (std): SHU FANG JIN
Inventor(s): JIN SHU FANG

Title: Composite **chlorine dioxide generator**

Abstract: Source: CN201729659U The utility model relates to a reaction device for preparing chemicals, in particular to a generating device of **chlorine dioxide**. A composite **chlorine dioxide generator** comprises a cabinet and a reactor positioned in the cabinet, and is characterized in that: a **controller** display screen transparent shield is arranged on a front panel of the cabinet, and two dosing pump junction boxes are arranged at the two sides of the cabinet; a **control** box or a general junction box is arranged at the back side of the cabinet of the **generator**, and a blockage monitor is arranged on any one side panel of four side panels of the cabinet; and one or two gas flow sensors which are arranged on an air inlet manifold are arranged on the cabinet, and two sets of volume type dosing pump on-line calibrating devices are also additionally arranged at the lower ends of the two side panels of the cabinet of the **generator**. The composite **chlorine dioxide generator** improves the protection level of the shell of an electrical equipment of the **generator**, carries out the detection **control** of air flow entering the **generator**, improves safety, monitors sodium chloride in **real time**, and can non-stop calibrate the volume type dosing pump.

Classifications:

International (IPC 8-9): C01B11/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN201729659 U	20110202	CN201020247455U	20100701

Priority:

CN201020247455U 20100701

Probable Assignee:

Assignee(s): (std):

YU JIANG

Assignee(s):

YU JIANG

Inventor(s): (std):

JIANG YU

Inventor(s):

YU JIANG

JIANG YU

Title: PORTABLE WATER TREATMENT SYSTEM AND APPARATUS

Abstract: Source: US2011132815A A portable water treatment system and apparatus is disclosed that can effectively and efficiently treat aqueous fluids by quickly and reliably adjusting and **controlling** the free residual level of disinfectants, contaminants or additives through the addition of one or more treating agents such as oxidizing chemicals and/or other special-purpose additives, and that can continuously store, log, retrieve and report the related fluid composition data and other operating parameters on a **real-time** basis at either the use site or a **remote** location. A preferred use for the subject system and apparatus is managing the chemistry of disinfectant, contaminant and/or additive levels in aqueous fluids used in hydraulic fracturing operations, and **controlling** the free residual levels of the disinfectant or contaminants within the fluids, including fluids maintained in frac tanks during temporary cessation of a hydraulic fracturing operation.

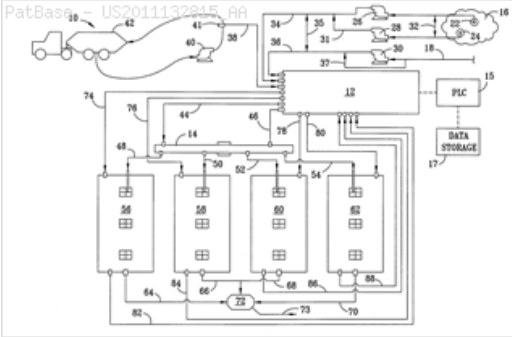
Classifications:

International (IPC 8-9): B01D17/12 B01D35/14 C02F1/00 C02F1/76 (Advanced/Invention)

CPC: Y10S507/922 C02F1/76 C02F1/008 C02F1/686 C02F1/722 C02F1/78 C02F5/08 C02F2103/023 C02F2103/10 C02F2201/008 C02F2209/008 C02F2301/043 C02F2303/04

European: C02F1/00T C02F1/76 M02F1/68P2 M02F1/72C M02F1/78 M02F103/02B M02F103/10 M02F201/00M M02F209/00T4 M02F301/04B M02F303/04 M02F5/08

US: 210/142 210/142S 210/194 210/198.1 210/205 210/241 210/754 210/87 210/88 210/88P 210/96.1 366/136 422/129 507/922



Family:

Publication number	Publication date	Application number	Application date
EP2558416 A1	20130220	EP20110766305	20110215
EP2558416 A4	20140716	EP20110766305	20110215
US2011132815 AA	20110609	US20100757403	20100409
US8211296 BB	20120703	US20100757403	20100409
WO11126608 A1	20111013	WO2011US24903	20110215

Priority:

US20100757403 20100409 WO2011US24903 20110215

Probable Assignee: FQ FRAXTAR LLC

Assignee(s): (std): GUCCIONE PATRICK D ; MELTON JASON M ; WONG DANIEL WAI TAK ; WILLIAMS JOHN H ; WILLIAM JOHN H ; NCH ECOSERVICES LLC ; ANGELILLI JEROME F

Assignee(s): ECOCYCLE SERVICES LLC ; FQ FRAXTAR LLC

Inventor(s): (std): ANGELILLI JEROME F ; GUCCIONE PATRICK D ; MELTON JASON M ; WILLIAM JOHN H ; WILLIAMS JOHN H ; WONG DANIEL WAI TAK

Agent(s): GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER; LOCKE LORD LLP; ROSS MONTY L

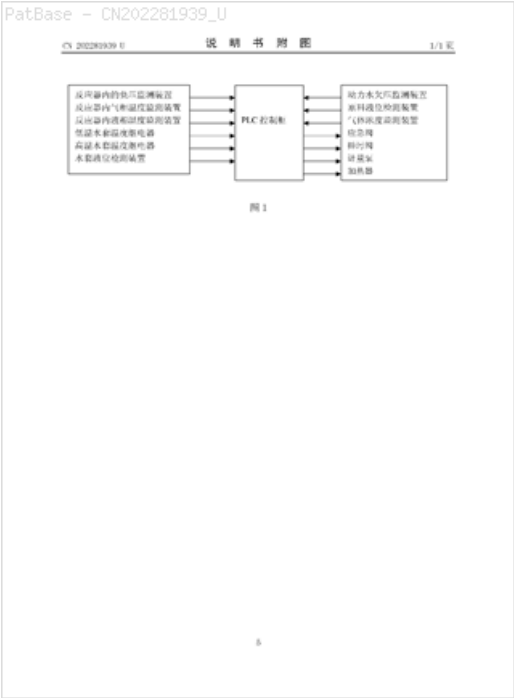
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Title: Safe state monitoring system of **chlorine dioxide generator**

Abstract: Source: CN202281939U The utility model discloses a safe state monitoring system of a **chlorine dioxide generator**, which comprises a **generator** and is characterized in that a negative pressure monitoring device, a gas phase temperature monitoring device, a liquid phase temperature monitoring device, a low temperature water jacket temperature relay, a high temperature water jacket relay and a water jacket liquid level detection device which are arranged in the **generator**. The negative pressure monitoring device, the gas phase temperature monitoring device, the liquid phase temperature monitoring device, the low temperature water jacket temperature relay, the high temperature water jacket relay and the water jacket liquid level detection device are respectively connected with a programmable logic **controller** (PLC) **control** cabinet. A power water underpressure monitoring device, a raw material liquid level detection device, a gas intensity monitoring device, an emergency valve, a blowdown valve, a metering pump and a heater are arranged outside the **generator**. By means of the technical scheme, the safe state online monitoring system has the advantages of **real time**, accuracy and intuition, has the function of alarming and protection for water shortage, pressure lack and overheat and simultaneously facilitates user operation.

Classifications:

International (IPC 8-9): C01B11/02 G05B19/048 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN202281939 U	20120620	CN201120443529U	20111110

Priority:

CN201120443529U 20111110

Probable Assignee: CHENGDU QILI WATER TREAT SCIENCE AND TECHNOLOGY CO LTD

Assignee(s): (std): CHENGDU QILI WATER TREAT SCIENCE AND TECHNOLOGY CO LTD

Assignee(s): CHENGDU QILI WATER TREATMENT SCIENCE AND TECHNOLOGYCO

Inventor(s): (std): CHAOYIN MU

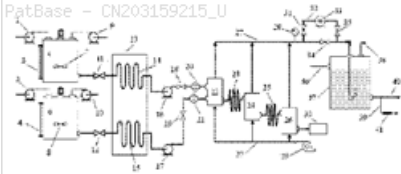
Inventor(s): MU CHAOYIN

Title: CHLORINE DIOXIDE GENERATOR SYSTEM

Abstract: Source: CN203159215U The utility model aims to provide a chlorine dioxide generator system. Sodium chlorite and hydrochloric acid are taken as raw materials, reaction completeness and equipment safety are taken into full consideration, and the addition quantity and proportion of the raw materials can be automatically controlled. Equipment is high in raw material conversion rate and low in operation cost, and the real-time detection and accurate closed-loop control on chlorine dioxide can be realized. The chlorine dioxide generator system comprises a hydrochloric acid solution preparer, a sodium chlorite solution preparer, a heater, a hydrochloric acid solution metering adder, a sodium chlorite solution metering adder, a reaction device, an absorber and a control system, wherein the hydrochloric acid solution preparer, the heater, the hydrochloric acid solution metering adder, the reaction device and the absorber are sequentially connected with one another through pipelines; and the sodium chlorite solution preparer, the heater, the sodium chlorite solution metering adder, the reaction device and the absorber are sequentially connected with one another through pipelines.

Classifications:

International (IPC 8-9): C01B11/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203159215 U	20130828	CN201320084092U	20130222

Priority:

CN201320084092U 20130222

Probable Assignee: JINLING INST TECHNOLOGY

Assignee(s): (std): JINLING INST OF TECHNOLOGY ; JINLING INST TECHNOLOGY

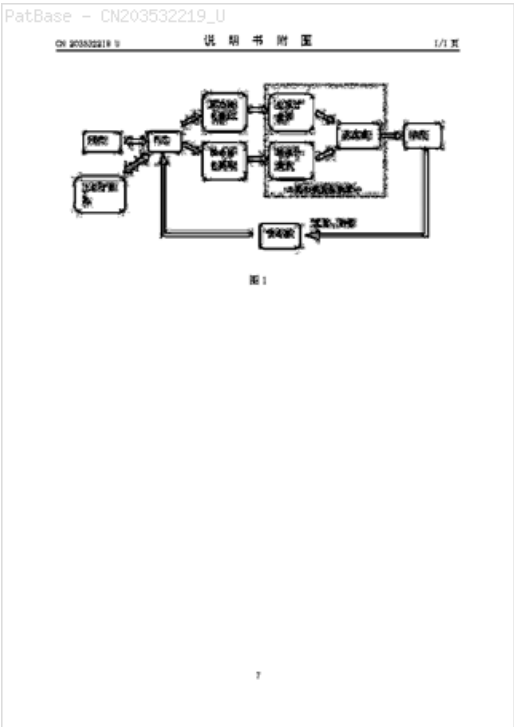
Inventor(s): (std): LI GUOLI ; WU MIN ; ZHAI LIXIN

Title: INTELLIGENT CONTROL SYSTEM OF CHLORINE DIOXIDE GENERATOR BASED ON ELECTROMAGNETIC PUMP

Abstract: Source: CN203532219U The utility model relates to an intelligent control system of a chlorine dioxide generator based on an electromagnetic pump. The intelligent control system is provided with a closed-loop control system composed of an upper computer, a PLC, an HMI, a solid-state relay, a salt liquid metering pump, an acid liquid metering pump, a residual chlorine sensor and a flow sensor. The upper computer and the HMI are communicated with the PLC, and conduct remote and on-site real-time monitoring and control over running parameters and states of the device. The PLC is used as the core controller, on one hand, the PLC interacts with the upper computer and the HMI, uploads running data and adjusts control parameters, and on the other hand, the PLC adjusts the output frequency of the solid-state relay through intelligent control software. One end of the solid-state relay is connected with the PLC, the other end of the solid-state relay is connected with the salt liquid metering pump and the acid liquid metering pump of the chlorine dioxide generator, and the working frequency of the salt liquid metering pump and the working frequency of the acid liquid metering pump are controlled, so that the working frequency of the salt liquid metering pump and the working frequency of the acid liquid metering pump are changed according to the control value. Therefore, the adding amount of salt liquid and acid liquid is controlled, the output of chlorine dioxide in a reaction kettle is controlled, and it is guaranteed that the residual chlorine value in a water network reaches a set value.

Classifications:

International (IPC 8-9): C01B11/02 F04B49/06 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203532219 U	20140409	CN201320551600U	20130906

Priority:

CN201320551600U 20130906

Probable Assignee: NANJING INST TECHNOLOGY

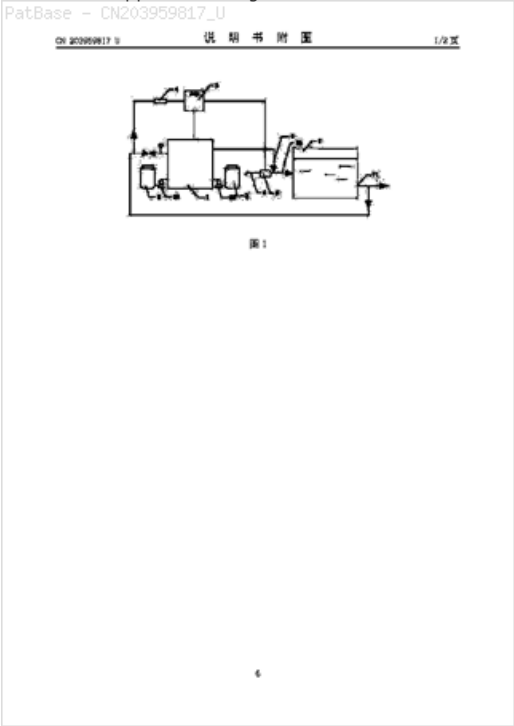
Assignee(s): (std): NANJING INST OF TECHNOLOGY ; NANJING INST TECHNOLOGY

Inventor(s): (std): XIA MINGLIANG

Title: PRACTICAL CHLORINE DIOXIDE GENERATOR

Abstract: Source: CN203959817U The utility model discloses a practical chlorine dioxide generator comprising a shell, a water flow control system and a residual chlorine sensor, wherein the shell is internally provided with a reactor, a control cabinet and a clean water tank; one side of the reactor is communicated with a hydrochloric acid drum through a sodium chlorate pump, the other side of the reactor is communicated with a sodium chlorate drum through a sodium chlorate pump, and the reactor is also provided with a chlorine dioxide output pipeline; the clean water tank comprises a solution inlet pipe and a water outlet; the water flow control system comprises a water pipe, wherein the water pipe is connected with the water inlet end of a flow adjustable water pump, and the water outlet end of the water pump and the chlorine dioxide output pipeline are both connected with the solution inlet pipe; the water pump is electrically connected with the control cabinet; and the residual chlorine sensor is arranged at the water outlet and is electrically connected with the control cabinet. The practical chlorine dioxide generator can be used for regulating the concentration of a chlorine dioxide solution in real time according to different demands so as to be wide in application range.

Classifications:
International (IPC 8-9): C01B11/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203959817 U	20141126	CN201420364850U	20140703

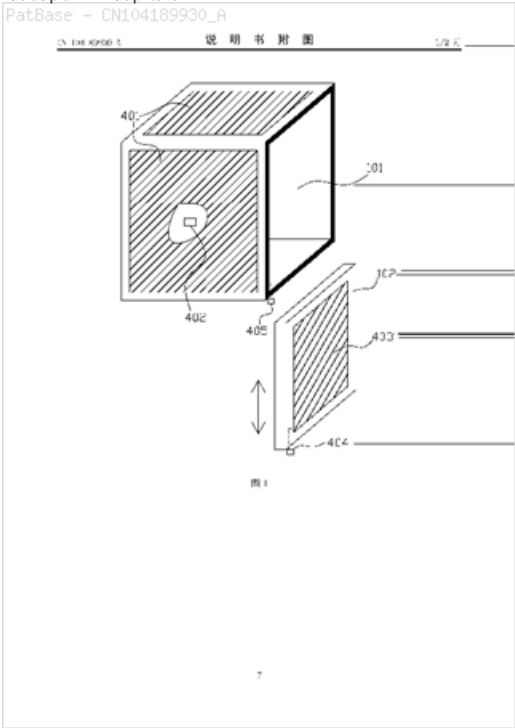
Priority:
CN201420364850U 20140703

Probable Assignee: YIN BAO
Assignee(s): (std): YIN BAO
Inventor(s): (std): YIN BAO

Title: CHLORINE DIOXIDE GAS FLEXIBLE ENDOSCOPE DISINFECTION MACHINE

Abstract: Source: CN104189930A The invention discloses a chlorine dioxide gas flexible endoscope disinfection machine. An airtight disinfection cabin serves as a core, a chlorine dioxide gas generator, an injection module and a chlorine dioxide gas absorption module are respectively used for injecting or absorbing chlorine dioxide gas disinfectants into or from the disinfection cabin; a drying loop is used for drying the outer surface of a flexible endoscope; a disinfection perfusion loop continuously allows the chlorine dioxide gas disinfectants to flow through an inner cavity of the flexible endoscope; and an automatic control system realizes the functions of fully automatically controlling the disinfection process, monitoring the disinfection parameters in real time, realizing traceability and the like. According to the invention, the chlorine dioxide gas which can achieve the sterilization level serves as a disinfectant, and the outer surface and inner cavity of the flexible endoscope are simultaneously disinfected by adopting an interior flushing and exterior washing mode. The chlorine dioxide gas flexible endoscope disinfection machine disclosed by the invention is mainly used for high-level disinfection of flexible endoscopes such as an enteroscope and a gastroscope in hospitals.

Classifications:
International (IPC 8-9): A61L101/06 A61L2/20
A61L2/24 (Advanced/Invention);
A61L101/06 (Advanced/Non-invention)



Family:

Publication number	Publication date	Application number	Application date
CN104189930 A	20141210	CN201410457870	20140910
CN104189930 B	20170215	CN201410457870	20140910

Priority:

CN201410457870 20140910

Probable Assignee: INST MED EQUIP ACAD MILITARY

Assignee(s): (std): BEIJING WANJIELANG MEDICAL TECHNOLOGY CO LTD ; GEN HOSPITAL OF PLA SHENGYANG MILITARY REGION ; GEN HOSPITAL PLA SHENGYANG MILITARY REGION ; MEDICAL EQUIPMENT INST OF MILITARY MEDICAL SCIENCES ; INST MED EQUIP ACAD MILITARY

Assignee(s): GENERAL HOSPITAL OF PLA SHENGYANG MILITARY REGION ; OF MEDICAL EQUIPMENT ACADEMY OF MILITARY MEDICAL SCIENCES INST ; BEIJING WANJIELANG MEDICAL TECHNOLOGY CO

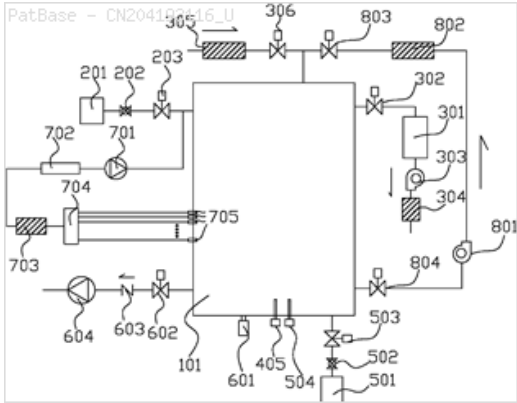
Inventor(s): (std): HAO LIMEI ; MA SHUREN ; QI JIANCHENG ; SHAN WANJUN ; WU JINHUI ; YI YING

Title: GASEOUS CHLORINE DIOXIDE FLEXIBLE ENDOSCOPE STERILIZER

Abstract: Source: CN204193116U The utility model discloses a gaseous chlorine dioxide flexible endoscope sterilizer. The gaseous chlorine dioxide flexible endoscope sterilizer uses an airtight sterilization cabin as a core; a gaseous chlorine dioxide generator, an injection module and a gaseous chlorine dioxide absorption module are used for injecting a gaseous chlorine dioxide disinfectant into the sterilization cabin and absorbing the gaseous chlorine dioxide disinfectant respectively; a drying loop is used for drying the outer surface of a flexible endoscope; a sterilization perfusion loop continuously ensures that the gaseous chlorine dioxide disinfectant flows through the inner cavity of the flexible endoscope; and an automatic control system realizes functions of full-automatic control of the sterilization process, real-time monitoring and traceability of sterilization parameters and the like. The gaseous chlorine dioxide flexible endoscope sterilizer disclosed by the utility model adopts gaseous chlorine dioxide, which can reach a sterilization level, as a disinfectant, and adopts an 'inner flushing and outer soaking' mode to sterilize the outer surface and the inner cavity of the flexible endoscope at the same time. The gaseous chlorine dioxide flexible endoscope sterilizer disclosed by the utility model is mainly used for high-level sterilization of flexible endoscopes such as an enteroscope, a gastroscop and the like in hospitals.

Classifications:

International (IPC 8-9): A61L101/06 A61L2/20
A61L2/24 (Advanced/Invention);
A61L101/06 (Advanced/Non-invention)



Family:

Publication number	Publication date	Application number	Application date
CN204193116 U	20150311	CN201420518330U	20140910

Priority:

CN201420518330U 20140910

Probable Assignee: INST MED EQUIP ACAD MILITARY

Assignee(s): (std): BEIJING WANJIELANG MEDICAL TECHNOLOGY CO LTD ; GEN HOSPITAL OF PLA SHENGYANG MILITARY REGION ; GEN HOSPITAL PLA SHENGYANG MILITARY REGION ; MEDICAL EQUIPMENT INST OF MILITARY MEDICAL SCIENCES ; INST MED EQUIP ACAD MILITARY

Assignee(s): GENERAL HOSPITAL OF PLA SHENGYANG MILITARY REGION ; OF MEDICAL EQUIPMENT ACADEMY OF MILITARY MEDICAL SCIENCES INST ; BEIJING WANJIELANG MEDICAL TECHNOLOGY CO

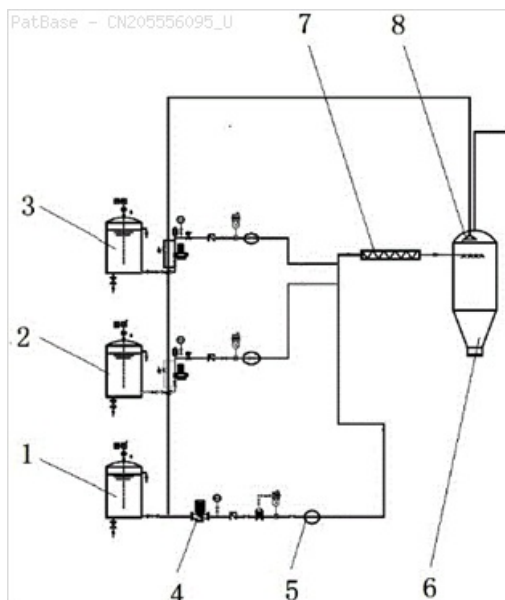
Inventor(s): (std): HAO LIMEI ; MA SHUREN ; QI JIANCHENG ; SHAN WANJUN ; WU JINHUI ; YI YING

Title: **CHLORINE DIOXIDE** PRODUCTION AUTOMATION MEASURES MEDICINE SYSTEM

Abstract: Source: CN205556095U The utility model discloses a **chlorine dioxide** production automation measures medicine system, including sodium chlorate basin, sulfuric acid storage tank, hydrogen peroxide solution basin, dosing pump, steady voltage gasbag, **generator**, static mixer and probe, sodium chlorate basin, sulfuric acid storage tank and hydrogen peroxide solution basin pass through dosing pump and steady voltage airbag connection static mixer's input respectively, and static mixer's output passes through the pipe connection **generator**, the inside of **generator** sets up the probe, probe connection **control** system's input, and the dosing pump is connected to **control** system's output. The utility model discloses a set up the probe in the inside of **generator**, inside **chlorine dioxide** concentration data of **real-time control** **generator** and with data feedback to **control** system are adjusted with the **time** the dose that adds of dosing pump by **control** system, stabilize the manifold pressure through the steady voltage gasbag, can the effective **control** safety in production, improvement **chlorine dioxide**'s production efficiency.

Classifications:

International (IPC 8-9): C01B11/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN205556095 U	20160907	CN201620145114U	20160226

Priority:

CN201620145114U 20160226

Probable Assignee: YUNNAN NEW LANSEGANG TECH DEV CO LTD

Assignee(s): (std): YUNNAN NEW LANSEGANG TECH DEV CO LTD

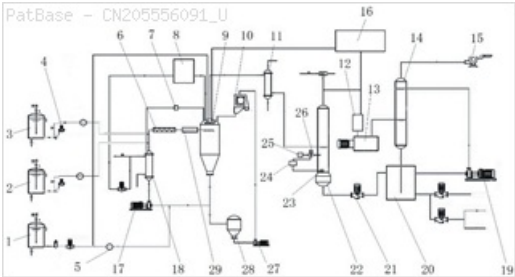
Assignee(s): YUNNAN NEW LANSEGANG TECHNOLOGY DEVELOPMENT CO ; YUNNAN NEW TECHNOLOGY DEVELOPMENT CO LTD HONG KONG BLUE

Inventor(s): (std): DING YING

Title: CHLORINE DIOXIDE AUTOMATIC CONTROL PRODUCTION SYSTEM

Abstract: Source: CN205556091U The utility model discloses a chlorine dioxide automatic control production system, including sodium chlorate basin, sulfuric acid storage tank, hydrogen peroxide solution basin and dosing pump, the inside chlorine dioxide concentration detection probe that sets up of generator, chlorine dioxide concentration detection probe connection control system's input, and the dosing pump is connected to control system's output, and the inside on absorption tower sets up pH value sensor, and the input of PLC controller is connected to pH value sensor, and the motor of the output of PLC controller connection pH governor pump gear, the input/output of pH governor pump gear holds and connects pH regulator storage tank and absorption tower respectively. This practicality can realize the real time monitoring of concentration for result concentration obtains guaranteeing, the effective control safety in production improves chlorine dioxide's production efficiency.

Classifications:
International (IPC 8-9): C01B11/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN205556091 U	20160907	CN201620145110U	20160226

Priority:

CN201620145110U 20160226

Probable Assignee: YUNNAN NEW LANSEGANG TECH DEV CO LTD

Assignee(s): (std): YUNNAN NEW LANSEGANG TECH DEV CO LTD

Assignee(s): YUNNAN NEW LANSEGANG TECHNOLOGY DEVELOPMENT CO ; YUNNAN NEW TECHNOLOGY DEVELOPMENT CO LTD HONG KONG BLUE

Inventor(s): (std): DING YING

