

Search query (7): [SP]: ultraviolet spectrophotometer with deuterium lamp control circuit the invention provides an ultraviolet spectrophotometer with a deuterium lamp control circuit. an output end of a variable resistor is directly connected with an anode of a deuterium lamp an input end of the variable resistor is connected with a constant flow source through a diode and the input end of the variable resistor is also connected with a trigger circuit. according to the technical scheme, the lighting performance of the deuterium lamp can be improved, and the power consumption of a system can be reduced. the service life of the deuterium lamp is prolonged.

Results: 6

Search history

Search SOURCE and AUTOMATIC and MICROCONTROLLED and POWER and CONTROL and DEUTERIUM LAMP (Results 0)

1:

Search power and source and deuterium and lamp (Results 2206)

2:

Search 2 and variable (Results 822)

3:

Search 4 and correct (Results 1000000)

4:

Search 4 and indicator (Results 197595)

5:

Search deuterium lamp control (Results 1)

6:

Search [SP]: ultraviolet spectrophotometer with deuterium lamp control circuit the invention provides an ultraviolet spectrophotometer with a deuterium lamp control circuit. an output end of a variable resistor is directly connected with an anode of a deuterium lamp an input end of the variable resistor is connected with a constant flow source through a diode and the input end of the variable resistor is also connected with a trigger circuit. according to the technical scheme, the lighting performance of the deuterium lamp can be improved, and the power consumption of a system can be reduced. the service life of the deuterium lamp is prolonged. (Results 6)

Title: Deuterium lamp voltage supply means

Abstract: A deuterium lamp starting circuit utilizing the arc-defining aperture cage of the lamp as the arc-starting electrode to enable the application of a positive, low starting voltage simultaneously with the application of the filament voltage. This positive, low starting voltage is applied to the cage which operates as a starting electrode. After the anode to cathode arc strikes and the anode voltage decreases below the cutoff level, current between the cage and the cathode is reduced and the current flows between the cathode and the anode of the tube.

Classifications:

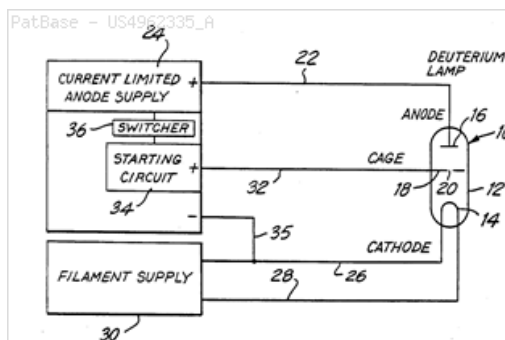
International (IPC 8-9): H01J61/54 H05B41/04
H05B41/19 (Advanced/Invention);
H01J61/54 H05B41/00 H05B41/18 (Core/Invention)

International (IPC 1-7): H01J61/54 H05B41/19

CPC: H05B41/044

European: H05B41/04B2

US: 315/330 315/335 315/58 315/60



Family:

Publication number	Publication date	Application number	Application date
DE69007786 D1	19940505	DE19906007786	19900709
DE69007786 T2	19940707	DE19906007786T	19900709
EP0465735 A1	19920115	EP19900307456	19900709
EP0465735 B1	19940330	EP19900307456	19900709
US4962335 A	19901009	US19890330778	19890330

Priority:

US19890330778 19890330 EP19900307456 19900709

Probable Assignee: SONNENSCHN ARMIN K

Assignee(s): (std): SONNENSCHN ARMIN K ; SONNENSCHN ARMIN KARL

Assignee(s): SONNENSCHN ARMIN KARL WOODCLIFF LAKE N J ; SONNENSCHN ARMIN KARL WOODCLIFF LAKE N J US

Inventor(s): (std): SONNENSCHN ARMIN K ; SONNENSCHN ARMIN KARL

Inventor(s): SONNENSCHN ARMIN KARL WOODCLIFF LAKE N J ; SONNENSCHN ARMIN KARL WOODCLIFF LAKE N J US

Designated states: DE GB

Abstract: A control circuit for a discharge lamp, which can improve the lighting performance of the discharge lamp while realizing low power consumption, and a light source device are provided. The resistance value of the variable resistor (RC1, RC2) is not switched to the low resistance (R02) for steady discharge at the fourth time t4, but is switched to the low resistance (R02) at the fifth time t5, after lowering of power supply to the filament. With such control, a change in the lamp impedance is absorbed sufficiently by the variable resistor while power supply to the filament is being lowered and, therefore, destabilization of discharge is reduced and the lighting performance is improved.

US: 315/105 315/307 315/307P 315/360

Parent Application Publication Aug. 5, 2010 Sheet 1 of 7 US 2010/0194089 A1

Publication number	Publication date	Application number	Application date
■ CN101743783 A	20100616	CN200880024549	20080501
■ CN101743783 B	20140806	CN200880024549	20080501
■ DE112008001832 T5	20100617	DE200811001832T	20080501
■ JP2009021190 A2	20090129	JP20070184906	20070713
■ JP4909199 B2	20120404	JP20070184906	20070713
■ US2010194309 AA	20100805	US20080666144	20080501
■ US8193740 BB	20120605	US20080666144	20080501
■ WO09011163 A1	20090122	WO2008JP58387	20080501

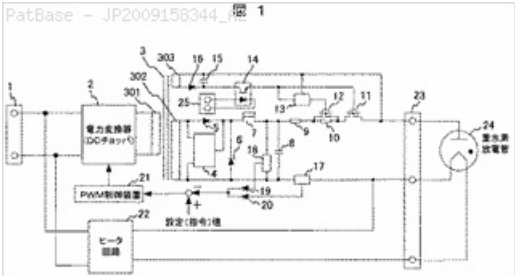
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE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

Title: POWER SUPPLY FOR DEUTERIUM DISCHARGE TUBE, ITS CONTROL METHOD, AND DECOMPOSER

Abstract: PROBLEM TO BE SOLVED: To surely illuminate a deuterium discharge tube suitable as light source of a decomposer, such as a spectrophotometer or a liquid chromatograph, and to improve the stability of light volume emitted from the turned-on deuterium discharge tube. SOLUTION: A plurality of resistors 9 and 10 are connected in series with a portion between A and K of a deuterium discharge tube 24. The characteristics of a portion between A and K of the deuterium discharge tube 24 and series circuits of the resistors 9 and 10 seen from power supply are corrected to the positive resistance characteristics in spite of large negative resistance characteristics in glow discharge at the time of discharge starting. Immediately after discharge starts, part of the resistor 10 connected is short-circuited. The comparatively small negative resistance characteristics in glow discharge during continuous discharge are corrected to the positive resistance characteristics by only the resistor 9. Accordingly, the discharge current is stably continued with a proportional control system by negative feedback.

Classifications:

International (IPC 8-9): G01N21/01 G01N21/33
H05B41/282 (Advanced/Invention);
G01N30/74 (Advanced/Non-invention);
G01N21/01 G01N21/31 H05B41/28 (Core/Invention);
G01N30/00 (Core/Non-invention)



Family:

Publication number	Publication date	Application number	Application date
JP2009158344 A2	20090716	JP20070336321	20071227
JP5117180 B2	20130109	JP20070336321	20071227

Priority:

JP20070336321 20071227

Probable Assignee: HITACHI HIGH TECH CORP

Assignee(s): (std): HITACHI HIGH TECH CORP

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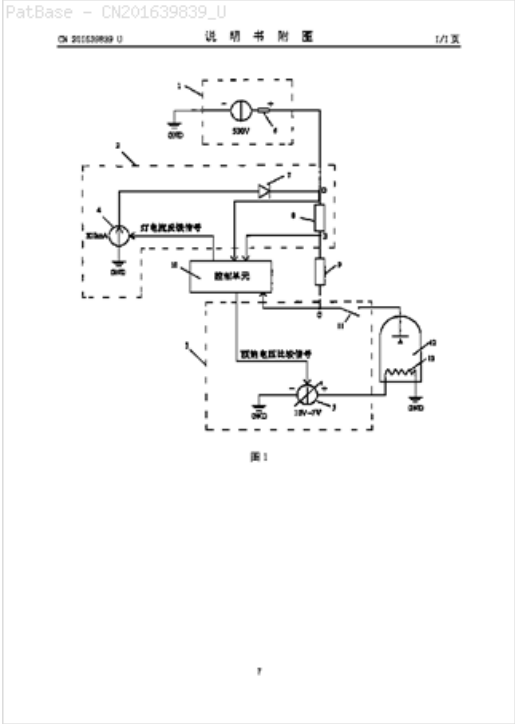
Inventor(s): (std): FURUYA ISAO ; HIYAMA ATSUSHI ; NISHITARUMI TAKESHI ; SAEKI TAKUYA ; TAKAHASHI KENICHIRO ; TSUTSUDA KOUJI

Title: Deuterium lamp power supply

Abstract: The utility model discloses a deuterium lamp power supply which comprises a deuterium lamp preheating circuit, a control unit, a ballast resistor, a high voltage power supply and a constant current source circuit. In the utility model, current triggering of the high voltage power supply is adopted in the triggering process of the deuterium lamp power supply so that the triggering of a deuterium lamp is more reliable; the constant current input is carried out by adopting a high stability constant current source; meanwhile, a lamp current feedback circuit and the ballast resistor are arranged in the constant current source circuit, thereby ensuring that the deuterium lamp has high constant current input precision, good stability, small waves and high security; and the deuterium lamp preheating circuit adopts an independent adjustable constant voltage source, and a preheating voltage comparison circuit is arranged in the preheating circuit, therefore, the voltage inputs at two ends of a lamp filament of the deuterium lamp are more precise and stable.

Classifications:

International (IPC 8-9): H05B41/16 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN201639839 U	20101117	CN201020164944U	20100421

Priority:

CN201020164944U 20100421

Probable Assignee: HANGZHOU EVERFINE PHOTO E INFO

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Assignee(s): HANGZHOU EVERFINE PHOTO E INFO CO

Inventor(s): (std): JI JUN ; JIANGEN PAN

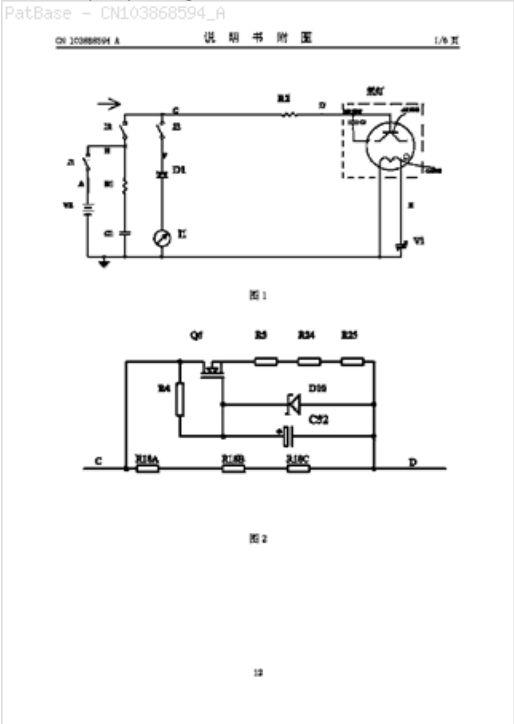
Inventor(s): PAN JIANGEN

Title: ULTRAVIOLET SPECTROPHOTOMETER WITH DEUTERIUM LAMP CONTROL CIRCUIT

Abstract: The invention provides an ultraviolet spectrophotometer with a deuterium lamp control circuit. An output end of a variable resistor is directly connected with an anode of a deuterium lamp; an input end of the variable resistor is connected with a constant flow source through a diode; and the input end of the variable resistor is also connected with a trigger circuit. According to the technical scheme, the lighting performance of the deuterium lamp can be improved, and the power consumption of a system can be reduced. The service life of the deuterium lamp is prolonged.

Classifications:

International (IPC 8-9): G01J3/42 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
■ CN103868594 A	20140618	CN201210560936	20121221
■ CN103868594 B	20170616	CN201210560936	20121221

Priority:

CN201210546688 20121216 CN201210560936 20121221

Probable Assignee: RIGOL TECHNOLOGIES INC

Assignee(s): (std): RIGOL TECHNOLOGIES INC

Assignee(s): BEIJING RIGOL TECHNOLOGIES LTD

Inventor(s): (std): WANG YUE ; WANG TIEJUN ; LI WEISEN ; DENG JINGJING

Title: ULTRAVIOLET STERILIZATION DEVICE AND CONTROL METHOD THEREOF AND FAUCET ASSEMBLY WITH ULTRAVIOLET STERILIZATION DEVICE

Abstract: The invention discloses a control method of an ultraviolet sterilization device. The ultraviolet sterilization device comprises an ultraviolet ray generating unit. The control method comprises the following steps that a water flow signal is detected; a current state of the ultraviolet ray generating unit is determined according to the water flow signal; if the ultraviolet ray generating unit is not in a sterilizing state currently, the ultraviolet sterilization device gets into a preheating mode to preheat the ultraviolet ray generating unit. According to the control method of the ultraviolet sterilization device, the sterilization reaction time can be shortened, and the drinking water safety is guaranteed. The invention further discloses the ultraviolet sterilization device and a faucet assembly with the ultraviolet sterilization device.

Classifications:

International (IPC 8-9): C02F1/32 C02F103/04 (Advanced/Invention); C02F103/04 (Advanced/Non-invention)

CPC: C02F1/32 C02F2103/04 C02F2201/326 C02F2303/04 C02F2307/06



Family:

Publication number	Publication date	Application number	Application date
CN105858798 A	20160817	CN201610235303	20160414

Priority:

CN201610235303 20160414

Probable Assignee: FOSHAN SHUNDE MIDEA WATER DISPENSER MFG CO LTD

Assignee(s): (std): FOSHAN SHUNDE MIDEA WATER DISPENSER MFG CO LTD ; MIDEA GROUP CO LTD

Assignee(s): FOSHAN SHUNDE MIDEA WATER DISPENSER MFG CO ; MIDEA GROUP CO

Inventor(s): (std): LI DONGYOU ; LIN SHIHONG ; PIAO FENGGEN ; TAN FEI