

Diego Gonzalez

Search history

Search 1: STAC=(heat* and conduction and control+ and power and sensor and compensation*) (Results 44)

Search 2: STAC=(heat* and conduction and control+ and power and sensor and compensation* and electrode) (Results 8)

Title: **POWER** GENERATING AND **CONTROL** APPARATUS FOR THE TREATMENT OF TISSUE

Abstract: Apparatus, systems, and methods are provided for the generation and **control** of energy delivery in a dosage to elicit a therapeutic response in diseased tissue. A balloon catheter can have **electrodes** attached to a **power** generator and **controller** such that the balloon and **electrodes** contact tissue during energy treatment. Energy selectively may be applied to tissue based on measured impedance to achieve gentle **heating**. Calibration of the apparatus and identification of attached accessories by computing the circuit impedance prior to energy dosage facilitate regulation of **power** delivery about a set point. Energy delivery can be **controlled** to achieve substantially uniform bulk tissue temperature distribution. Energy delivery may beneficially affect nerve activity.

Classifications:

International (IPC 8-9): A61B18/00 A61B18/04 A61B18/10

A61B18/12 A61B18/14 A61B18/18 A61B18/20 A61B18/24

A61B5/053 A61M25/10 A61N1/32 A61N1/36 A61N1/378

A61N5/067 (Advanced/Invention);

A61B17/22 A61B18/00 A61B18/18 A61B18/24

A61N7/02 (Advanced/Non-invention)

CPC: A61B17/22012 A61B18/245 A61B2018/00214 A61B2018/0022

A61B2018/00422 A61B2018/00577 A61B2018/00642

A61B2018/00684 A61B2018/00702 A61B2018/00875

A61B2018/00898 A61B2018/1861 A61N7/022 A61B2018/00434

A61B18/1492 A61B18/1206

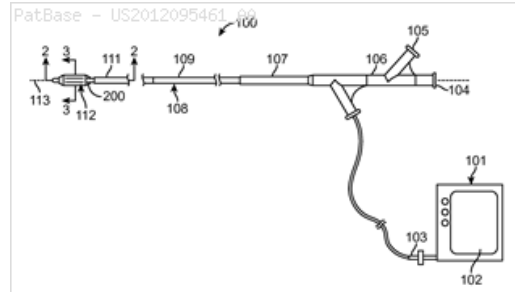
European: A61B18/12G A61B18/14V A61N1/05N K61B17/22B2

K61B18/00B14 K61B18/00B14A K61B18/00F6C6 K61B18/00G1

K61B18/00H10A K61B18/00H12R K61B18/00H14 K61B18/00H2

K61B18/14V K61B18/18M6 K61B18/24B K61N7/02C

US: 1/1 606/41 606/45 606/45P 607/59 607/59S 607/62 607/62S



Family:

Publication number	Publication date	Application number	Application date
AU2011238925 AA	20111013	AU20110238925	20110411
AU2011238925 BB	20160616	AU20110238925	20110411
CA2795229 AA	20121002	CA20112795229	20110411
CN103068330 A	20130424	CN201180024127	20110411
CN103068330 B	20160629	CN201180024127	20110411
EP2555699 A2	20130213	EP20110766286	20110411
EP2555699 A4	20140521	EP20110766286	20110411
JP2013523318 T2	20130617	JP20130503747T	20110411
JP2017074444 A2	20170420	JP20160247956	20161221
JP6302039 B2	20180328	JP20160247956	20161221
KR20130108067 A	20131002	KR20127029369	20110411
US2012095461 AA	20120419	US20110066347	20110411
US2016135883 AA	20160519	US20160008103	20160127
US9277955 BB	20160308	US20110066347	20110411
WO11126580 A2	20111013	WO2011US00661	20110411
WO11126580 A3	20120105	WO2011US00661	20110411

Priority:

US20040938138	20040910	US20060392231	20060328	US20060852787P	20061018
US20070921973P	20070404	US20070975651	20071018	US20070975474	20071018
US20070975383	20071018	US20090177744P	20090513	US20090564268	20090922
US20090617519	20091112	US20100342191P	20100409	JP20130503747T	20110411
US20110066347	20110411	WO2011US00661	20110411	US20160008103	20160127
JP20160247956	20161221				

Probable Assignee: MINNOW MEDICAL INC

Assignee(s): (std): ESPINOSA JOSELUIS ; HERSCHER BRET ; KRAWZSENEK DAVID ; LABARGE AARON ; PERRY MICHAEL ; MINNOW MEDICAL INC ; LEBARGE AARON ; VESSIX VASCULAR INC ; VESSIX

Inventor(s): (std): ESPINOSA JOSELUIS ; HERSCHER BRET ; KRAWZSENEK DAVID ; LABARGE AARON ; LEBARGE AARON ; PERRY MICHAEL ; MICHAEL PERRY ; JOSELUIS ESPINOSA ; DAVID KRAWZSENEK ; BRET HERSCHER ; AARON LEBARGE

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; Clark Jane Anne; ONDA MAKOTO; YAMAKAWA MASAKI; ONDA HIRONORI; KACVINSKY DAISAK BLUNI PLLC; BARRISH MARK D ET AL

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 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 IS IT JP KE KG KM KN KP KR KZ LA LC LI 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: TEMPERATURE **CONTROL** SYSTEM WITH SIMPLIFIED **CONTROLLER** AND **POWER** SUPPLY

Abstract: The invention includes a simple and inexpensive thermal **controller** and simple and inexpensive radio frequency alternating current generator which are provided in an improved temperature **control** system for a resistively **heated** electrochemical cell. The temperature **controller** is formed by a single amplifier with feedback circuit which provides the function of a combined deviation amplifier and two mode (percent proportional band and integral functions) **controller**. The alternating current generator uses a single direct current voltage source to generate a radio frequency alternating electric current. The two elements are combined in a temperature **control** circuit for a resistively **heated** electrochemical cell. The **control** circuit provides an alternating current with varying **power** by cyclicly shutting the current off for irregular portions of a predetermined cycle period.

Classifications:

International (IPC 8-9): G01N27/406 G01N27/409 G01N27/416

G01N27/417 G05D23/20 (Advanced/Invention);

G01N27/406 G01N27/409 G05D23/20 (Core/Invention)

International (IPC 1-7): C01N27/56 G01N27/28 G01N27/56

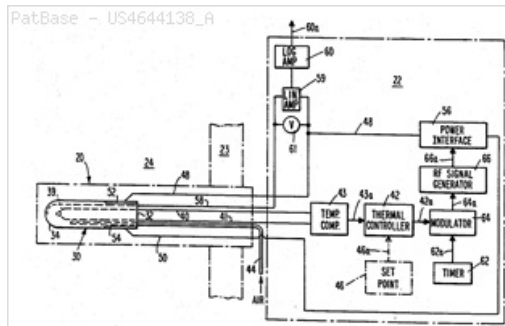
G01N27/58 H01M12/06 H01M4/92 H01M6/20 H01M8/12 H05B1/02

CPC: G05D23/1913 G05D23/20 G01N27/4067

European: G01N27/406D G05D23/20C6

US: 204/1T 204/274 204/400 204/406 204/425 204/426 204/427

205/785 219/497 219/501 323/245 330/103 330/75



Family:

Publication number	Publication date	Application number	Application date
AT44618 E	19890715	AT19840301044T	19840217
AU198424628 A1	19840823	AU19840024628	19840215
AU575551 B2	19880804	AU19840024628	19840215
CA1216027 A1	19861230	CA19840447372	19840214
CA1225434 A1	19870811	CA19840447373	19840214
DE3478955 D1	19890817	DE19843478955	19840217
DK75984 A	19840819	DK19840000759	19840217
DK75984 A0	19840217	DK19840000759	19840217
EP0117692 A1	19840905	EP19840301044	19840217
EP0117692 B1	19890712	EP19840301044	19840217
JP59157559 A2	19840906	JP19840028410	19840217
KR19840007709 A	19841210	KR19840000755	19840216
KR840007709 A	19841210	KR19840000755	19840216
US4644138 A	19870217	US19830488371	19830425
US4659435 A	19870421	US19850764234	19850809

Priority:

US19830467812 19830218	US19830488371 19830425	US19830488094 19830425
CA19840447372 19840214	CA19840447373 19840214	EP19840301044 19840217
US19850764234 19850809		

Probable Assignee: UNITED PROCESS CONTROL INC

Assignee(s): (std): CORNING GLASS WORKS ; DIDIER WERKE AG

Assignee(s): KANE WILLIAM T ; LAYTON MARGARET M ; CORNING GLASS WORKS CORNING NEW YORK A CORP OF NEW YORK ; UNITED PROCESS CONTROL INC ; MARATHON MONITORS INC ; CORNING GLASS WORKS CORNING NEW YORK A CORP OF NEW ; DIDIER WERKE A CORP OF FED REP OF GERMANY AG ; CORNING GLASS WORKS CORNING NEW YORK A CORP ; BROTHERS JACK A ; BROUNEUS HAROLD A

Inventor(s): (std): BROTHERS JACK ANTHONY ; BROUNEUS HAROLD AXEL ; HARORUDO AKUSERU BUROONIASU ; JIYATSUKU ANSONII BURAZAAZU ; KANE WILLIAM THEODORE ; LAYTON MARGARET MCKINNEY ; MAAGARETSUTO MATSUKINII REITON ; UIRIAMU SEODOA KEIN ; WALSH PAUL L ; LAYTON MARGARET M ; KANE WILLIAM T ; BROUNEUS HAROLD A ; BROTHERS JACK A

Inventor(s): JACK ANTHONY BROTHERS ; HAROLD AXEL BROUNEUS ; WILLIAM THEODORE KANE ; MARGARET MCKINNEY LAYTON

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SIM AND MCBURNEY

Designated states: AT BE CH DE FR GB IT LI NL SE

Title: Ink jet recording apparatus **controlled** by presumed temperature and method therefor

Abstract: An ink jet recording apparatus including a recording head for performing print recording by ejecting ink from an ejection orifice by thermal energy; temperature **sensors** provided in the recording head; a temperature calculation device for calculating a temperature change of the recording head in a unit time as a discrete value on the basis of the supply of energy input to the recording head, and for calculating the temperature change of the recording head by accumulating the discrete value in the unit time; a temperature presuming device for presuming a head temperature by both a calculated value of the temperature change and an adopted base value of the head temperature; a detection device for detecting a difference between the head presumed temperature and a detected temperature sensed by the temperature **sensors**; an update device for updating the adopted base value of the head temperature by the difference; and a **control** device for **controlling** ejection of the ink to be stabilized in accordance with the head presumed temperature.

Classifications:

International (IPC 8-9): B41J2/05 B41J2/125 B41J2/175 B41J2/195 B41J2/21 B41J29/38 B41J29/393 B41J29/46 (Advanced/Invention); B41J2/125 B41J2/175 B41J2/21 B41J29/38 B41J29/393 B41J29/46 (Core/Invention)

International (IPC 1-7): B41J2/05 B41J2/07 B41J2/125 B41J2/175 B41J2/195 B41J2/21 B41J29/38 B41J29/393 B41J29/46

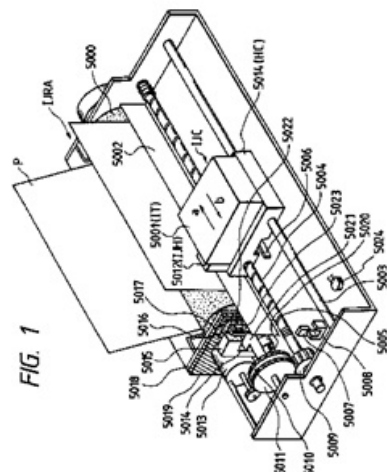
CPC: B41J2/0454 B41J2/04563 B41J2/04565 B41J2/04573 B41J2/0458 B41J2/04588 B41J2/04591 B41J2/04598 B41J2/195 B41J2002/14379

European: B41J2/045D33 B41J2/045D47 B41J2/045D48 B41J2/045D53 B41J2/045D57 B41J2/045D62 B41J2/045D64 B41J2/045D68 B41J2/195 L41J2/14M

US: 347/14

PatBase - US6086180_H

U.S. Patent Jul. 11, 2008 Sheet 1 of 56 6,086,180



Family:

Publication number	Publication date	Application number	Application date
AT187933 E	20000115	AT19940303828T	19940526
AT319574 E	20060315	AT19940200441T	19940526
DE69422219 D1	20000127	DE19946022219	19940526
DE69422219 T2	20000518	DE19946022219T	19940526
DE69434655 D1	20060504	DE19946034655	19940526
DE69434655 T2	20070118	DE19946034655T	19940526
EP0626265 A2	19941130	EP19940303828	19940526
EP0626265 A3	19950322	EP19940303828	19940526
EP0626265 B1	19991222	EP19940303828	19940526
EP0924084 A2	19990623	EP19990200441	19940526
EP0924084 A3	20000614	EP19990200441	19940526
EP0924084 B1	20060308	EP19990200441	19940526
JP3428690 B2	20030722	JP19930206690	19930820
JP6336023 A2	19941206	JP19930126391	19930527
JP6336024 A2	19941206	JP19930126392	19930527
JP7052409 A2	19950228	JP19930206690	19930820
US6086180 A	20000711	US19940250160	19940527

Priority:

JP19930126391 19930527 JP19930126392 19930527 JP19930206690 19930820
EP19940303828 19940526

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK

Assignee(s): CANON INC ; CANON K K ; CANON KABUSHIKI KAISHA

Inventor(s): (std): GOTOH FUMIHIRO ; HIRABAYASHI HIROMITSU ; KOITABASHI NORIBUMI ; MATSUBARA MIYUKI ; NAGOSHI SHIGEYASU ; NISHIKORI HITOSHI ; SUGIMOTO HITOSHI ; UETUKI MASAYA ; UETUKI MASAYA C O CANON KABUSH ; UETUKI ; UETSUKI MASAYA ; NISHIKORI HITOSHI C O CANON KA ; NISHIKORI ; NISHIGORI HITOSHI ; SUGIMOTO HITOSHI CANON KABUSHI ; NAGOSHI SHIGEYASU C O CANON KA ; MATSUBARA MIYUKI C O CANON KAB ; MATSUBARA ; KOITABASHI NORIFUMI ; HIRABAYASHI HIROMITSU C O CANO ; GOTOH FUMIHIRO ; KOITABASHI NORIBUMI C O CANON ; GOTOH FUMIHIRO C O CANON KABUS ; GOTOH

Inventor(s): HIRABAYASHI HIROMITSU C O CANON KABUSHIKI KAISHA ; GOTOH FUMIHIRO C O CANON KK ; GOTOH FUMIHIRO C O CANON KABUSHIKI KAISHA ; KOITABASHI NORIBUMI C O CANON KABUSHIKI KAISHA ; MATSUBARA MIYUKI C O CANON KK ; MATSUBARA MIYUKI C O CANON KABUSHIKI KAISHA ; NISHIKORI HITOSHI C O CANON KK ; NISHIKORI HITOSHI C O CANON KABUSHIKI KAISHA ; NAGOSHI SHIGEYASU C O CANON KABUSHIKI KAISHA ; SUGIMOTO HITOSHI CANON KABUSHIKI KAISHA ; UETUKI MASAYA C O CANON KK ; UETUKI MASAYA C O CANON KABUSHIKI KAISHA

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

Title: Image printing apparatus and image printing method

Abstract: An image printing device includes a latent image charge keeping medium including a pyroelectric layer, a thermal head for selectively **heating** the charge keeping medium according to a signal, and an electrically conductive film disposed to be brought into contact with or to be in the vicinity of a surface of the pyroelectric layer of the medium for being **heated** by the thermal head, thereby neutralizing charge appearing on the medium due to pyroelectric effect. The device further includes a developer for visualizing with a charged coloring medium an electrostatic latent image formed on the medium, a transfer roller for transferring the developed image onto a sheet of printing paper, and a fixing device for fixing the transferred image on the printing sheet. The conductive layer is applied with a bias voltage from a **power** source such that a strong absorbing force acts upon charge, thereby efficiently neutralizing the charge. There are attained a high printing density and a favorable uniformity in the printing density.

Classifications:

International (IPC 8-9): B41J2/325 B41J2/385 B41J29/00

G03G15/05 G03G15/32 (Advanced/Invention);

B41J2/325 B41J2/385 B41J29/00 G03G15/05 (Core/Invention)

International (IPC 1-7): B41J2/325 B41J2/36 B41J2/385 B41J29/00

G03G15/05 G03G15/32

CPC: G03G15/32 G03G15/321

European: G03G15/32 G03G15/32C

US: 101/489 346/76.1 347/171 347/183 347/205 400/120.07

400/120.09

PatBase - US5660486_A

U.S. Patent

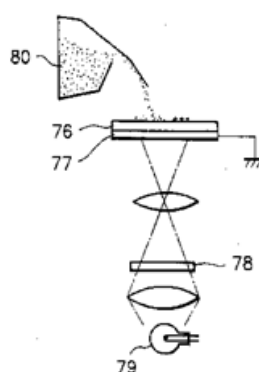
Aug. 26, 1997

Sheet 1 of 14

5,660,486

FIG. 1

PRIOR ART



Family:

Publication number	Publication date	Application number	Application date
DE69515082 D1	20000323	DE19956015082	19950524
DE69515082 T2	20001012	DE19956015082T	19950524
DE69523641 D1	20011206	DE19956023641	19950524
DE69523641 T2	20020711	DE19956023641T	19950524
EP0684531 A2	19951129	EP19950303515	19950524
EP0684531 A3	19960417	EP19950303515	19950524
EP0684531 B1	20000216	EP19950303515	19950524
EP0902338 A1	19990317	EP19980121034	19950524
EP0902338 B1	20011031	EP19980121034	19950524
JP2606584 B2	19970507	JP19940108848	19940524
JP7314852 A2	19951205	JP19940108848	19940524
JP8062952 A2	19960308	JP19950130867	19950529
US5660486 A	19970826	US19950447798	19950523

Priority:

JP19940108848 19940524

JP19940129986 19940613

EP19950303515 19950524

JP19950130867 19950529

Probable Assignee: NEC A OF JAPAN CORP

Assignee(s): (std): NEC CORP

Assignee(s): NEC CORP TOKIO TOKYO ; NEC A OF JAPAN CORP

Inventor(s): (std): OTSUKA YASUHIRO ; OTSUKA YASUHIRO C O NEC CORPOR ; OKUDA SHINICHI ; OKUDA MASAKAZU C O NEC CORPORA ; OKUDA MASAKAZU

Inventor(s): OKUDA MASAKAZU C O NEC CORPORATION ; OTSUKA YASUHIRO C O NEC CORPORATION

Agent(s): MARUYAMA TAKAO

Designated states: DE GB

Title: SEMICONDUCTOR CIRCUIT FOR AN ELECTRONIC UNIT

Abstract: A semiconductor circuit for an electronic unit having at least one microcontroller comprises at least one voltage regulator for providing, from a first supply voltage, at least one second supply voltage for the microcontroller and for circuits of the unit which cooperate with the microcontroller. The circuit further comprises, in monolithic form, a transceiver unit having transmitting and receiving device for coupling a microcontroller to the two-wire bus. This monolithic construction may additionally comprise watchdog functions, various wake-up functions and an interface via which a serial data exchange with the at least one microcontroller is possible. Furthermore, it may have an apparatus for determining, throughout the network, bus subscribers having reference-ground potential faults and for quantifying such faults.

Classifications:

International (IPC 8-9): B60R16/02 G06F1/26 G06F1/32 G06F13/40 H04L12/26 H04L12/40 (Advanced/Invention);

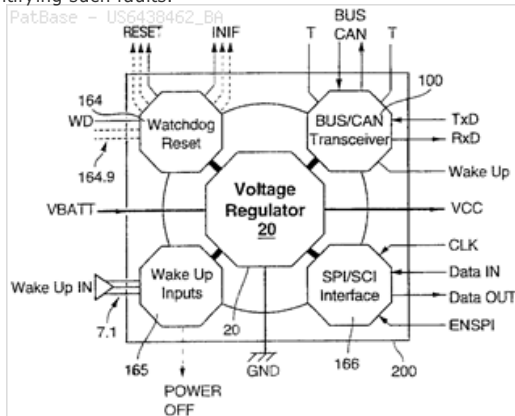
B60R16/03 G06F1/26 G06F13/40 H04L12/40 (Advanced/Non-invention)

International (IPC 1-7): B60R16/02 F02D41/26 G06F1/26 G06F11/30 G06F13/40 G08B23/00 G08C15/06 H01L29/74 H02H7/00 H04L12/26 H04L12/40

CPC: B60R16/0315 G06F1/3203

European: G06F1/32P L60R16/03M

US: 340/693.4 361/100 361/18 700/297 713/340



Family:

Publication number	Publication date	Application number	Application date
AT201797 E	20010615	AT19960939841T	19961119
DE19611942 A1	19971002	DE19961011942	19960326
DE19611942 C2	20030220	DE19961011942	19960326
DE59607020 D1	20010705	DE19965007020	19961119
EP0890241 A1	19990113	EP19960939841	19961119
EP0890241 B1	20010530	EP19960939841	19961119
ES2159363 T3	20011001	ES19960939841T	19961119
JP2000504517 T2	20000411	JP19970533959T	19961119
JP3343685 B2	20021111	JP19970533959T	19961119
KR100319286 B1	20020422	KR19980707669	19961119
KR20000005044 A	20000125	KR19980707669	19961119
US6438462 BA	20020820	US19980161593	19980928
WO9736398 A1	19971002	WO1996EP05087	19961119

Priority:

DE19961011942 19960326 DE19965007020 19961119 WO1996EP05087 19961119

Probable Assignee: DAIMLER AG

Assignee(s): (std): DAIMLER BENZ AG ; DAIMLER CHRYSLER AG ; HANF PETER ; REEB MAX ; MINUTH JUERGEN ; SETZER JUERGEN

Assignee(s): DAIMLER BENZ AKTIENGESELLSCHAFT 70567 STUTTGART DE ; DAIMLERCHRYSLER AG ; MERCEDES BENZ AKTIENGESELLSCHAFT ; DAIMLER BENZ AKTIENGESELLSCHAFT ; DAIMLER AG

Inventor(s): (std): SETZER JURGEN ; SETZER JUERGEN ; REEB MAX ; MINUTH JURGEN ; MINUTH JUERGEN ; HANF PETER ; SETZER J GEN ; MINUTH JUERGEN DIPL ING ; MINUTH J GEN ; HANF PETER DIPL ING

Inventor(s): HANF PETER DIPL ING FH 73035 GOEPPINGEN DE ; MINUTH JUERGEN DIPL ING 73054 EISLINGEN DE ; SETZER JUERGEN 75428 ILLINGEN DE

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT JP KR LU MC NL PT SE US

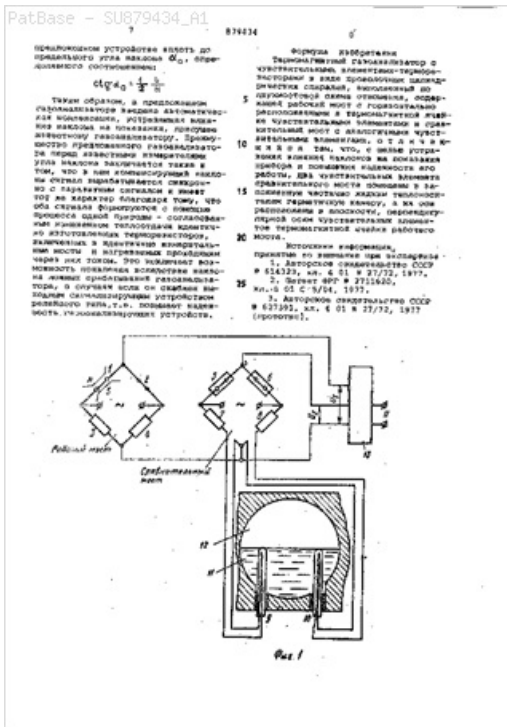
type, i.e. improves reliability Ga Detection Device. claims Magnetothermic analyzer with **sensors**, thermistors in the form of cylindrical wire spirals, made on a double-bridge circuit ratio, contains the work bridge horizontally raspolozhenmi in thermomagnetic. cell **sensors** and similar comparative bridge **sensors**, characterized in that in order to eliminate the effect of the slopes on the indication device and increasing reliability of its operation, the two sensitive elements of the bridge are placed in Comparative partially filled with **heat** transfer fluid tight chamber, and their axes are arranged in plane perpendicular to the axes of the sensitive elements of the working bridge thermomagnetic cell. Sources. received into account in the examination 1.Avtorskoe USSR certificate number 614323, cl. G 01 N 27/72, 1977. 2.Patent FRG number 2711620, cl. G S--5/04 01, 1977. 3.Avtorskoe USSR certificate number 627391, cl. G 01 N 27/72, 1977 (prototype).

Classifications:

International (IPC 8-9): G01N27/72 (Advanced/Invention);

G01N27/72 (Core/Invention)

International (IPC 1-7): G01N27/72



Family:

Publication number	Publication date	Application number	Application date
SU879434 A1	19811107	SU19792834249	19791030
SU879434 T	19811107	SU19792834249	19791030

Priority:

SU19792834249 19791030

Probable Assignee: SP K B ANALITICHESKOGO PRIBORO

Assignee(s): (std): SP K B ANALITICHESKOGO PRIBORO ; SP K BYURO ANALIT PRIBOROSTR

Assignee(s): SP K BYURO ANALITICHESKOGO PRIBOROSTROENIYA NT OBE ; SP K BYURO ANALITICHESKOGO PRIBOROSTROENIYA NT OBEDINENIYA AN SSSR

Inventor(s): (std): DAVYDOV NIKOLAJ A ; DVAS VIKTOR S ; MOCHALKIN ALEKSANDR I

Inventor(s): MOCHALKIN ALEKSANDR I SU ; DVAS VIKTOR S SU ; DAVYDOV NIKOLAJ A SU

Title: Liquid conductivity measuring system and sample cards therefor

Abstract: A system for measuring a parameter of a liquid sample, such as the hematocrit and an approximation of hemoglobin for a blood sample. The system basically comprises a hand-held instrument and a disposable sample card. The instrument accepts the disposable sample card, which is used for the one-time conveyance and application of a liquid sample, such as blood, to the instrument. The instrument has provision for digital displays for readouts. The disposable sample card is a micro-volume conductivity cell precision molded from plastic with built-in stainless steel **electrodes**. The instrument basically comprises an electronic portion for processing data obtained from the liquid sample on the sample card, a front-end mechanism for positioning the sample card within the instrument, and a digital display for displaying in eye-readable form the results of a parameter measurement made in the instrument.

Classifications:

International (IPC 8-9): G01N1/00 G01N27/00 G01N27/06

G01N27/07 G01N33/48 G01N33/487 G01N33/49

G01R27/22 (Advanced/Invention);

G01N33/49 (Advanced/Non-invention);

G01N27/06 G01N33/487 G01N33/49 G01R27/22 (Core/Invention)

International (IPC 1-7): G01K13/00 G01N1/00 G01N1/28 G01N27/00

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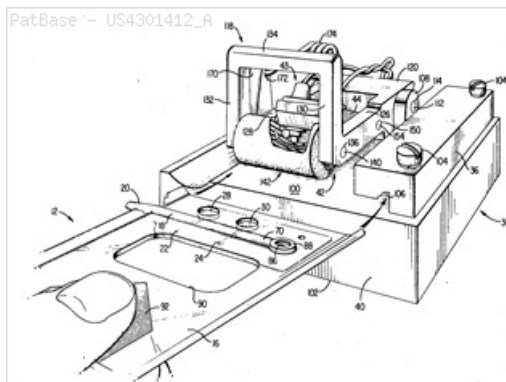
G06F15/42

CPC: G01R27/22 G01N33/49 Y10T29/49002 Y10T29/49208

European: G01N27/07 G01N33/487B G01N33/49 G01R27/22

US: 29/592.1 29/876 324/441 324/442 324/446 324/448 374/186

600/368 D24/169 D24/216



Family:

Publication number	Publication date	Application number	Application date
AU198063579 A1	19810507	AU19800063579	19801022
AU522929 B2	19820701	AU19800063579	19801022
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Priority:

US19790089086 19791029 US19790089088 19791029 US19790089087 19791029
 US19790089088 19791029 CA19800362298 19801014 GB19800034232 19801023
 CA19820405243 19820615

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Agent(s): SPRUSON AND FERGUSON; G RONALD BELL AND ASSOCIATES

Title: ON-OFF THERMOSTAT **CONTROL** DEVICE FOR A **POWER** USING MEANS SUCH AS A **HEATER**

Abstract: 1,248,308. Transistor oscillators. BILLMAN-REGULATOR A.B. 11 Feb., 1969 [12 Feb., 1968], No. 7289/69. Heading H3T. [Also in Division G3] A thermally operated oscillator comprising transistors T 1, T 2 arranged in a flip-flop configuration is connected into -a bridge network responsive to temperature in an automatic **control** system in which a thermistor R TH is the responsive element. The bridge network is supplied with full wave rectified A.C. voltage and dependent on the bridge condition either T 1 or T 2 will switch on. Below a determined temperature transistor T 2 will **conduct** each half-cycle, thus rendering another transistor T 3, a thyristor T 4, and a triac T 5 conductive which energizes a **heater** B. During **conduction** of triac T 5 the primary winding of a transformer Tr is shunted, reducing the voltage across the bridge network. Above the determined temperature the transistor T 1 is-rendered conductive each half-cycle, which inhibits **conduction** of T 2 -T 5. During successive-half-cycles in.this condition, a **heater** R 3 warms transistor T 2, hence lowering its " switch on " voltage until it **conducts** with consequent energization of the **heater** B. As the **heater** R 3 cools due to-the shunting of the bridge-network transistor T 1 eventually recondacts,hence the **heater** B is periodically switched on and off a suggested time being about ten seconds. A thermistor R TK may be included in the bridge network to provide ambient temperature **compensation**, but this may be replaced by an ordinary resistor.

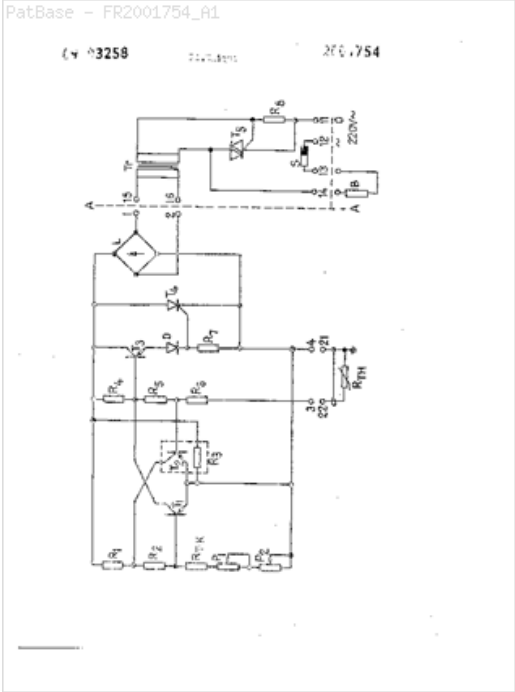
Classifications:

International (IPC 8-9): G05D23/24 (Advanced/Invention); G05D23/20 (Core/Invention)

International (IPC 1-7): G05D23/20 G05D23/24 G05F1/00 H03K5/00 H05B1/00 H05B1/02

CPC: G05D23/24 G05D23/1913

European: G05D23/24C6C



Family:

Publication number	Publication date	Application number	Application date
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Priority:

SE19680001804 19680212

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