

Diego Gonzalez

Search history

Search 1: STAC=(temperature and flow and heat and wall and sensor and time) (Results 1493)

Search 2: STAC=(temperature and flow and heat and wall and sensor and time and resist* and capacitor) (Results 45)

Search 3: STAC=(temperature and flow and heat and wall and sensor and time and resist* and capacitor and power) (Results 40)

Search 4: STAC=(temperature and flow and heat and wall and sensor and time and resist* and capacitor and power and calc*) (Results 22)

Title: STAGED AND/OR PATTERNED **HEATING** DURING IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION

Abstract: A method for treating a hydrocarbon containing formation is described. The method for treating a hydrocarbon containing formation may include **heating** a first volume of the formation using a first set of **heaters**. A second volume of the formation may be **heated** using a second set of **heaters**. The first volume may be spaced apart from the second volume by a third volume of the formation. The first volume, second volume, and/or third volume may be sized, shaped, and/or located to inhibit deformation of subsurface equipment caused by geomechanical motion of the formation during **heating**.

Classifications:

International (IPC 8-9): E21B36/00 E21B36/02 E21B36/04

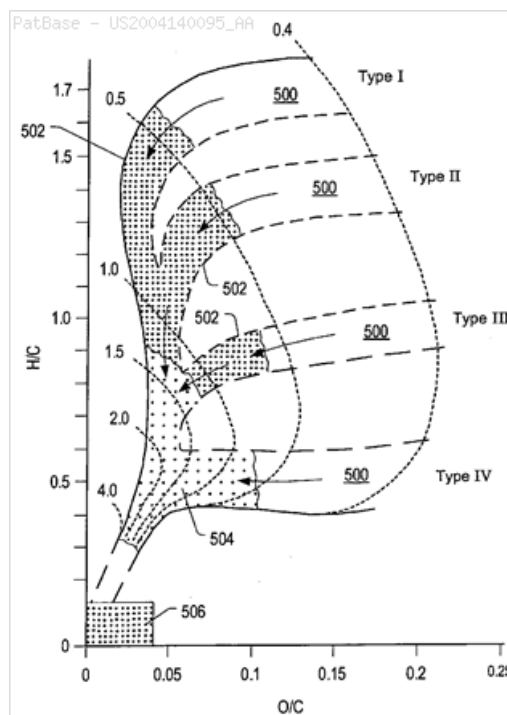
E21B43/00 E21B43/16 E21B43/18 E21B43/24 E21B43/243
E21B43/30 E21B47/00 E21B47/06 H05B3/78 (Advanced/Invention);
E21B36/00 E21B43/00 E21B43/16 E21B47/06 (Core/Invention)

International (IPC 1-7): E21B36/00 E21B36/02 E21B36/04
E21B43/00 E21B43/24 E21B43/30 E21B7/04 E21B7/15 G01V1/00
H05B3/02

CPC: H05B2214/03 E21B36/008 E21B47/00 E21B47/06 E21B47/065
E21B36/00 E21B36/001 E21B43/006 E21B43/243 E21B36/02
E21B36/04 E21B43/24 E21B43/2401 Y02P90/70

European: E21B36/00 E21B36/00B E21B36/00M E21B36/02
E21B36/04 E21B43/00M E21B43/24 E21B43/243 E21B43/24B

US: 166/245 166/250.01 166/252.1 166/252.100P 166/256 166/266
166/268 166/285 166/292 166/302 166/305.1 166/369 166/57
166/57S 166/59 166/6 166/60 166/60S 166/65.1 166/65.100S
166/66 175/45 175/61 367/37 392/301 392/301P 392/469
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AU2003284936 AA	20040513	AU20030284936	20031024
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AU2003285008 AA	20040513	AU20030285008	20031024
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WO04038174 A3	20040715	WO2003US33850	20031024
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US20120567799	20120806	US20130078116	20131112		

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Agent(s):

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

Title: SYSTEM AND METHOD FOR IMPROVED ELECTRIC CARS AND/OR ELECTRIC CAR BATTERIES AND/OR IMPROVED INFRASTRUCTURES FOR RECHARGING ELECTRIC CARS.

Abstract: 23/12/08 Yaron Mayer and Haim Gadassi 1/1 System and method for improved electric cars and/or electric car batteries and/or improved infrastructures for recharging electric cars. ABSTRACT The present invention enables improved and more efficient recharging of electric cars, preferably by using improved batteries and/or improved recharger arrangements in electric cars and/or in infrastructures that are used for recharging electric cars, and/or other improvements in the infrastructures, while preferably also protecting the electric grid from overload. This is preferably done for example by accumulating energy in service stations for example in special preferably high speed capacitors, such as for example one or more super capacitors, and/or for example one or more molten salt accumulators and/or for example in the new M1 batteries developed by A123 Systems or similar batteries or other fast batteries which can be recharged for example to 80 percent capacity within 5 minutes, or for example the similar fast new batteries by Toshiba or for example the BYD Iron Phosphate batteries or for example the Altair Nanotechnologies Nanosafe battery, so that preferably these accumulators can be used for example to recharge cars with M1 batteries or similar fast-recharge batteries, since otherwise the service station would need to have a huge capacity power supply to enable such fast recharges. Other covered variations include for example efficient methods of recharging the batteries preferably serially, either in the service station (based on a model of fast replacement of batteries at the service station), preferably after automatically sorting the batteries into more or less homogenous groups, or in the car itself for example by automatically rerouting the batteries or some of them or elements in them during recharge so that they are recharged more serially than during the normal operation of the car, thus enabling recharge with less rechargers and/or at higher voltages and with less current and less problems of heat during recharge. Other described improvements include for example a system wherein when recharging the electric cars, for example rechargers and/or for example one or more central computers for example in the electrical grid company and/or in the service provider take into account also car-specific parameters in order to optimize the recharging priorities, for example based on the state of their batteries and/or for example also based on additional parameters and/or heuristics and/or statistics and/or for example automatic repeated identification of cars based for example on a unique preferably digital ID number, so that for example the system can take into account also various regular and/or historical car specific parameters and/or patterns and/or statistics, such as for example typical arrival and departure times, typical distances traveled, specific needs based on week days, etc. Other features include for example a system and method for alerting users when a parking and/or recharging post becomes available and/or reserving them in advance. Other features include for example various improvements in the electric cars themselves. 23/12/08 Yaron Mayer and Haim Gadassi 2/3 Fig. 3 3.1 - Electric Car arrives for recharge service 3.2 - The empty batteries are quickly removed and 4 replaced with recharged batteries 3.3 - The removed empty batteries are quickly examined in order to check if there are batteries which are already at the end of their life or otherwise damaged, and in order to sort them into more or less homogenous groups 3.4 - if the car is not in a battery insurance plan the user has to pay something for the problematic battery or batteries 3.5 - Car leaves 3.6 - The removed empty batteries are automatically sorted into more or less homogenous groups according to various parameters and are moved to the group serial recharger preferably with the help of conveyor belts 3.7 - The empty batteries are recharged preferably at night - preferably serially within each group, and multiple groups are recharged in parallel at the same time 3.8 - When a new set of recharged batteries is requested the system preferably automatically picks up a mix from various groups in order to create a heterogeneous set

Classifications:

International (IPC 8-9): B60L9/00 H01M10/44 H02J15/00 H02J3/28

H02J3/46 H02J7/00 (Advanced/Invention);

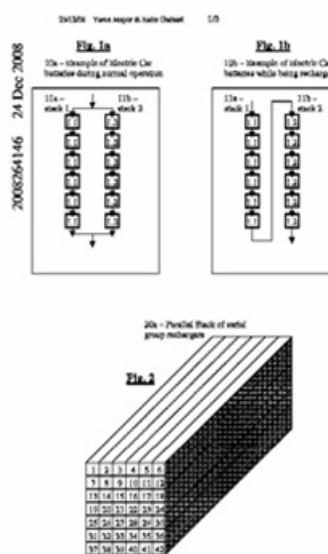
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H02J7/00 (Core/Invention)

CPC: Y02T10/7005

European: Y02E60/12

PatBase - AU2008264146_AA



Family:

Publication number	Publication date	Application number	Application date
AU2008264146 AA	20090709	AU20080264146	20081224

Priority:

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Inventor(s):	YARON MAYER ; HAIM GADASSI
Agent(s):	MAYER YARON MR

Title: SYSTEM AND METHOD FOR IMPROVED ELECTRIC CARS AND/OR ELECTRIC CAR BATTERIES AND/OR IMPROVED INFRASTRUCTURES FOR RECHARGING ELECTRIC CARS

Abstract: The present invention enables improved and more efficient recharging of electric cars, preferably by using improved batteries and/or improved recharger arrangements in electric cars and/or in infrastructures that are used for recharging electric cars, and/or other improvements in the infrastructures, while preferably also protecting the electric grid from overload. This is preferably done for example by accumulating energy in service stations for example in special preferably high speed **capacitors**, such as for example one or more super **capacitors**, and/or for example one or more molten salt accumulators and/or for example in the new M1 batteries developed by A123 Systems or similar batteries or other fast batteries which can be recharged for example to 80 percent capacity within 5 minutes, or for example the similar fast new batteries by Toshiba or for example the BYD Iron Phosphate batteries or for example the Altair Nanotechnologies Nanosafe battery, so that preferably these accumulators can be used for example to recharge cars with M1 batteries or similar fast-recharge batteries, since otherwise the service station would need to have a huge capacity **power** supply to enable such fast recharges. Other covered variations include for example efficient methods of recharging the batteries preferably serially, either in the service station (based on a model of fast replacement of batteries at the service station), preferably after automatically sorting the batteries into more or less homogenous groups, or in the car itself for example by automatically rerouting the batteries or some of them or elements in them during recharge so that they are recharged more serially than during the normal operation of the car, thus enabling recharge with less rechargers and/or at higher voltages and with less current and less problems of **heat** during recharge. Other described improvements include for example a system wherein when recharging the electric cars, for example rechargers and/or for example one or more central computers for example in the electric grid company and/or in the service provider take into account also car-specific parameters in order to optimize the recharging priorities, for example based on the state of their batteries and/or for example also based on additional parameters and/or heuristics and/or statistics and/or for example automatic repeated identification of cars based for example on a unique preferably digital ID number, so that for example the system can take into account also various regular and/or historical car-specific parameters and/or patterns and/or statistics, such as for example typical arrival and departure **times**, typical distances traveled, specific needs based on week days, etc. Other features include for example a system and method for alerting users when a parking and/or recharging post becomes available and/or reserving them in advance. Other features include for example various improvements in the electric cars themselves.

Classifications:**International (IPC 8-9):** B60L11/18 H01M10/42 H01M10/44

H02J7/00 (Advanced/Invention);

B60L11/18 H01M10/42 H02J7/00 (Core/Invention)

CPC: B60L11/1874 B60L3/0046 B60L11/1818 B60L11/1822 B60L11/1825 B60L11/1838 B60L11/184 B60L11/1842 B60L11/1844 B60L11/1846 B60L11/1848 B60L11/185 B60L11/1875 B60L2230/16 B60L2250/10 B60L2270/36 Y02E60/721 Y02T10/7005 Y02T10/705 Y02T90/121 Y02T90/124 Y02T90/128 Y02T90/14 Y02T90/163 Y02T90/169 Y04S10/126 Y04S30/14 B60L2200/26 Y02T10/7088

European: B60L11/18L4A B60L11/18L6 B60L11/18L7A B60L11/18L7J B60L11/18L7J10 B60L11/18L7J12 B60L11/18L7J2 B60L11/18L7J4 B60L11/18L7J6 B60L11/18L7J8 B60L11/18M34D B60L11/18M34F B60L3/00F6 L60L230/16 L60L250/10 L60L270/36 Y02E60/72B Y02T10/70B Y02T10/70H4 Y02T10/70J4 Y02T90/12B Y02T90/12F Y02T90/12L Y02T90/14 Y02T90/16D Y02T90/16F4 Y04S10/12D Y04S30/14

**Family:**

Publication number	Publication date	Application number	Application date
CA2648972 AA	20090624	CA20082648972	20081224

Priority:

GB20070025123	20071224	GB20070025207	20071227	GB20080002261	20080207
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GB20080023447	20081223	GB20080023475	20081224		

Probable Assignee:

GADASSI HAIM

Assignee(s): (std):

GADASSI HAIM ; MAYER YARON

Inventor(s): (std):

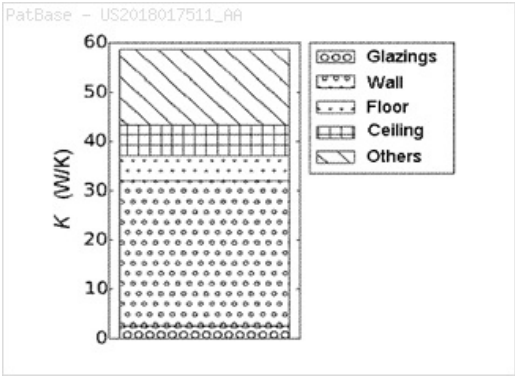
GADASSI HAIM ; MAYER YARON

Title: DETERMINATION OF THE THERMAL RESISTANCE OF A WALL

Abstract: This method, which is aimed at determining a quantity representative of the thermal resistance of a dividing wall between a first environment and a second environment, comprises steps in which over at least two successive time periods D_k corresponding to distinct heating powers P_k of the first environment, there is undertaken a campaign of measurements of the heat flow rate through the wall q_k and of the temperature in the first environment T_{1k} at closely spaced time intervals, as well as the determination of the temperature in the second environment T_{2k} at closely spaced time intervals; the value of the quantity representative of the thermal resistance of the wall is determined by bringing into convergence: on the one hand, a thermal model expressing the temporal variation of the temperature in one environment divided off from another environment by a wall, as a function of the heat flow rate through the wall, of the temperature in the other environment and of physical parameters of the wall, on the basis of which the quantity representative of the thermal resistance of the wall is calculable; and, on the other hand, the measured evolution $T_{1k}(t)$ of the temperature in the first environment as a function of time.

Classifications:

International (IPC 8-9): E04B2/00 G01K17/00 G01K17/20
G01N25/00 G01N25/18 G01N25/20 G01N3/60 (Advanced/Invention)
CPC: G01K17/20 G01N3/60 G01N25/18
JP F-Term: 2F056 2F056/YP10 2G040 2G040/AA09 2G040/AB08
2G040/BA14 2G040/BA27 2G040/CA02 2G040/DA03 2G040/DA12
2G040/DA13 2G040/EA02 2G040/EC09 2G040/HA16
JP F-Index: G01K17/20 G01N25/18/B



Family:

Publication number	Publication date	Application number	Application date
AR103625 AA	20170524	AR2016P100333	20160205
AU2016214236 AA	20160811	AU20160214236	20160205
BR112017016854 A2	20180327	BR20171116854	20160205
CA2973801 AA	20170713	CA20162973801	20160205
CN107257922 A	20171017	CN201680008909	20160205
CO20170007332 A2	20171010	CO20170007332	20170724
EP3254092 A1	20171213	EP20160707874	20160205
FR3032529 A1	20160812	FR20150050970	20150206
IN201717025410 A	20171110	IN201717025410	20170718
JP2018509613 T2	20180405	JP20170541664T	20160205
KR20170110093 A	20171010	KR20177021873	20160205
MX2017010038 A1	20171027	MX20170010038	20160205
US2018017511 AA	20180118	US20160547816	20160205
WO16124870 A1	20160811	WO2016FR50253	20160205

Priority:

FR20150050970 20150206 WO2016FR50253 20160205

Probable Assignee: SAINT GOBAIN ISOVER

Assignee(s): (std): SAINT GOBAIN ISOVER

Assignee(s): ALZETTO FLORENT ; MEULEMANS JOHANN ; PANDRAUD GUILLAUME

Inventor(s): (std): ALZETTO FLORENT ; FLORENT ALZETTO ; GUILLAUME PANDRAUD ; JOHANN MEULEMANS ; MEULEMANS JOHANN ; PANDRAUD GUILLAUME

Agent(s): GRIFFITH HACK; GOUDREAU GAGE DUBUC; MARGARITA CASTELLANOS ABONDANO; SAINT GOBAIN RECHERCHE; AOKI ATSUSHI; SAINT GOBAIN RECHERCHE DEPARTEMENT PROPRIETE INDUSTRIELLE

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 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

Abstract: A real [time](#) system to televise sporting events from amongst the players on the playing field is disclosed. Sports paraphernalia that are ordinarily used by the players on the playing field are instrumented with a variety of TV cameras, microphones, and bi-directional communication electronics. Sports paraphernalia like footballs, ice hockey pucks, baseball first bases, baseball second bases, baseball third bases, baseball home plates and baseball pitcher's rubbers are disclosed. The instrumentation is built into and contained within the sports paraphernalia themselves. The instrumented sports paraphernalia televise signals to an antenna array relay junction, which relays the signals to a remote base station where they are processed and finally broadcast to a TV viewing audience. The cameraman in the remote base station exercises command and control over the functions of the instrumented sports paraphernalia.

US: 1/1 348/157 348/47



Priority:

Probable Assignee: MONARI LAWRENCE MAXWELL

Assignee(s): (std): MONARI LAWRENCE MAXWELL ; MONARI LAWRENCE SCOTT

Inventor(s): (std): MONARI LAWRENCE SCOTT ; MONARI LAWRENCE MAXWELL

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

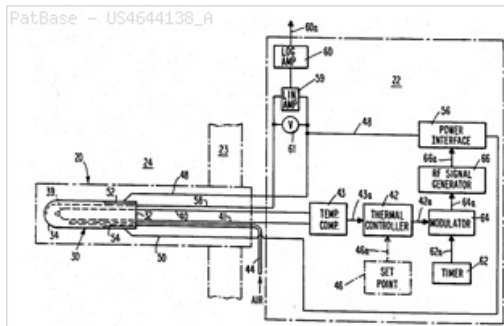
205/785 219/497 219/501 323/245 330/103 330/75

JP F-Term: 2G004 2G004/BB01 2G004/BB04 2G004/BB07

2G004/BE01 2G004/BH08 2G004/BH15 2G004/BJ02 2G004/BJ07

2G004/BK03 2G004/BL08

JP F-Index: G01N27/409 G01N27/409/100 G01N27/58/B



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: FLUID TREATMENT SYSTEM AND PROCESS

Abstract: A fluid treatment system and process includes structure and steps relating to a gravity fed fluid treatment system. A fluid inlet and a fluid outlet are provided, and an irradiation zone is disposed between the fluid inlet and the fluid outlet. The irradiation zone includes at least one radiation source and has a closed cross-section to confine fluid to be treated within a predefined maximum distance from the at least one radiation source. Cleaning structure is provided to remove undesired materials from an exterior of the radiation source. The cleaning structure comprises a cleaning sleeve surrounding the radiation source and movable with respect thereto. The cleaning solution includes a chamber surrounding and in contact with the exterior of the radiation source, the chamber being supplied with a cleaning solution suitable to remove undesired materials from the exterior of the radiation source.

Classifications:

International (IPC 8-9): B01J19/08 B01J19/12 B08B3/02 B08B3/04 B08B3/08 B08B9/02 C02F1/30 C02F1/32 G01J5/02 G02C5/00 H01J61/00 H01J61/38 (Advanced/Invention); B01J19/12 B08B3/02 (Advanced/Non-invention); B01J19/08 B01J19/12 B08B3/02 B08B3/04 B08B3/08 B08B9/02 C02F1/32 G01J5/02 G02C5/00 H01J61/00 (Core/Invention); C02F1/30 (Core/Non-invention); C02F (Subclass/Invention)

International (IPC 1-7): A61L2/10 B01J19/08 B01J19/12 B08B3/02 B08B3/04 B08B3/08 B08B9/02 B26F1/26 C02F1/30 C02F1/32 G01J5/02 G01N21/75 G01N250/431 G02C1/00 G02C5/02 G02C5/12 G02C5/16 H01J61/00 H01J61/38

CPC: G02C5/00 Y10S422/906 B01J19/123 C02F1/325 C02F2201/3227 C02F2201/324 C02F2201/326

European: B01J19/12D2 C02F1/32D G02C5/00 M02F201/322M M02F201/324 M02F201/326

US: 250/372 250/431 250/436 250/438 422/186.3 422/24 422/906

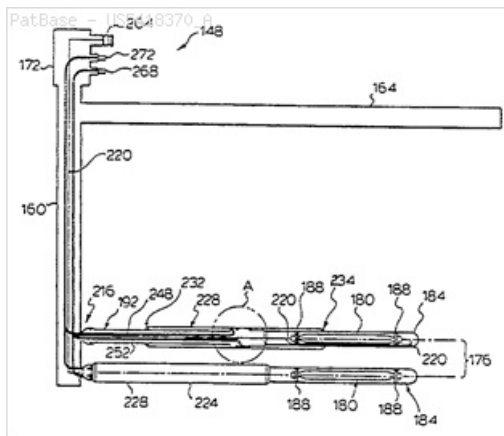
JP F-Term: 3B201 3B201/AA12 3B201/AB53 3B201/BA03

3B201/BA36 3B201/BB21 3B201/BB87 3B201/BB90 3B201/BB92

3B201/BB96 3B201/BB98 3B201/CB25 3B201/CD36 4D037

4D037/AB03 4D037/BA18 4G075 4G075/AA13 4G075/CA33 4G075/EA01 4G075/EA02 4G075/EB31 4G075/EC25

JP F-Index: B01J19/12/D B08B3/02/F C02F1/32

**Family:**

Publication number	Publication date	Application number	Application date
AT162956 E	19980215	AT19940908240T	19940304
AT203492 E	20010815	AT19940112786T	19940304
AT247603 E	20030915	AT19940100934T	19940304
AU199461531 A1	19940926	AU19940061531	19940304
AU199896100 A1	19990722	AU19980096100	19981204
AU200229230 A1	20020516	AU20020029230	20020328
AU200229230 A5	20020516	AU20020029230D	20020328
AU747728 B2	20020523	AU19980096100	19981204
AU782018 B2	20050630	AU20020029230	20020328
BRPI9406347 A	19960213	BR1994PI06347	19940304
CA2117040 AA	19940906	CA19942117040	19940304
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CA2239925 AA	19940906	CA19942239925	19940304
CA2239925 C	20000118	CA19942239925	19940304
CA2286309 AA	19940906	CA19942286309	19940304
CA2286309 C	20050802	CA19942286309	19940304
CL1994000317 A1	19950511	CL19940000317	19940304
CN1081947 C	20020403	CN19941091814	19940304
CN1121320 A	19960424	CN19941091814	19940304
CO4180400 A1	19950607	CO19940026648	19940620
CO4180401 A1	19950607	CO19940026651	19940620
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CZ9502264 A3	19960417	CZ19950002264	19940304
DE69408441 D1	19980312	DE19946008441	19940304
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DK0687201 T3	19980923	DK19940908240T	19940304
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HU76196 A2	19970728	HU19950002580	19940304
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IL108709 A0	19940530	IL19940108709	19940218
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JP8509905 T2	19961022	JP19940519423T	19940304
KR100330268 B1	20020808	KR19950703725	19950904
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NO953451 A0	19950901	NO19950003451	19950901
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NZ328583 A	19990128	NZ19940328583	19940304
PH31690 A	19990118	PH19940047784	19940218
PL177739 B1	20000131	PL19940325048	19940304
PL177744 B1	20000131	PL19940325049	19940304
PL177782 B1	20000131	PL19940310528	19940304
PL310528 A1	19951227	PL19940310528	19940304
PT1094035 T	20031231	PT20010100934T	19940304
RO114754 B1	19990730	RO19950001563	19940304
SK109195 A3	19960403	SK19950001091	19940304
TH16941 A	19951123	TH19941000410	19940304
TW317558 B	19971011	TW19930101619	19930305
TW360619 B	19990611	TW19950110974	19930305
US5418370 A	19950523	US19930026572	19930305
US5539210 A	19960723	US19950445767	19950522
US5590390 A	19961231	US19940318858	19941017
USRE36896 E	20001003	US19980224846	19981231
WO9420208 A1	19940915	WO1994CA00125	19940304
WO9420876 A1	19940915	WO1994US01932	19940224
ZA9401096 A	19940916	ZA19940001096	19940217

Priority:

US19930026772	19930305	US19930026572	19930305	IL19940108709	19940218
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CA19942286309	19940304	CA19942286309	19940304	NZ19940262088	19940304
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US19940318858	19941017	US19950445767	19950522	KR19950703725	19950904
IL19970108709	19970714	CA19982117040	19980819	AU19980096100	19981204
US19980224846	19981231	CA19992239925	19991108	AU20020029230	20020328

Probable Assignee: TROJAN TECHNOLOGIES INC

Assignee(s): (std): MAARSCHALKERWEERD JAN M ; TROJAN TECHN INC ; TROJAN TECHNOLOGIES INC ; TROJAN TECHNOLOGIES INC LONDON ; TROJAN TECHNLOGIES INC ; CVI BETA VENTURES INC ; TROTAN TECHNOLOGIES INC

Assignee(s): TROTAN TECHNOLOGIES INCCA ; MAARSCHALKERWEERD JAN ; TROJAN TECHNOLOGIES INC CA ; TROJAN TECHNOLOGIES INC LONDON ONTARIO CA

Inventor(s): (std): KRUMME JOHN F ; MAARSCHALKER JAM M ; MAARSCHALKER WEERD JAN M ; MAARSCHALKERWEERD ; MAARSCHALKERWEERD JAN ; MAARSCHALKEWEER VAN M ; ZIDER ROBERT B ; MAARSCHALKERWEERD J M ; MAARSCHALKERWEERD JAN M ; MAARSCHALKER JAN M ; JM MAARSCHALKERWEERD ; JAN M MAARSCHALKERWEERD

Inventor(s): J M MAARSCHALKERWEERD ; JAM M MAARSCHALKER ; JAN M ; JAN M MAARSCHALKER

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GILBERTS LLP; SARGENT; ERNESTO CAVELIER; SANFORD TCOLB AND CO

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU LV MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG UA US UZ VN

Title: A comfort controls system

Abstract: A domestic heating system 20 serving a space-heating circuit 2 and a domestic hot waster circuit 4 has: a base unit 21 which is located next to boiler 7 and which monitors and controls operations of the system 20; a room unit 22 located in a room containing radiator 3 of the space-heating circuit 2; a mid-position valve 23; a cylinder sensor 24 and a frost kit 25. Base unit 21 has a microprocessor-run communications and control function to process appropriate information from the elements of system 20 and to ensure suitable operation of those elements at all times.

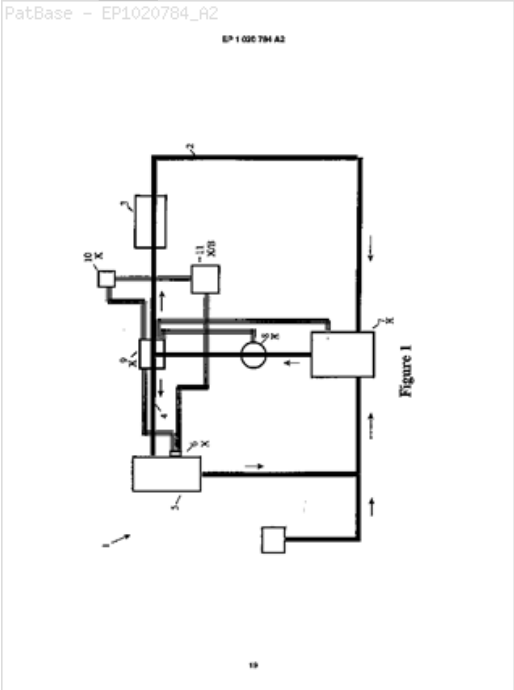
Classifications:

International (IPC 8-9): F24D19/10 (Advanced/Invention); F24D19/00 (Core/Invention)

International (IPC 1-7): F24D19/10 G05D23/19

CPC: F24D19/1066

European: F24D19/10C4



Family:

Publication number	Publication date	Application number	Application date
EP1020784 A2	20000719	EP20000300235	20000114
EP1020784 A3	20010530	EP20000300235	20000114
GB200000800 A0	20000308	GB20000000800	20000114
GB2345749 A1	20000719	GB20000000800	20000114
GB2345749 B2	20010926	GB20000000800	20000114

Priority:

GB19990000739 19990114 GB19990000742 19990114

Probable Assignee: HONEYWELL CONTROL SYST

Assignee(s): (std): HONEYWELL CONTROL SYST

Assignee(s): HONEYWELL CONTROL SYSTEMS LIMITED ; HONEYWELL CONTROL SYSTEMS LTD

Inventor(s): (std): MACKIE ALASTAIR D ; MACKIE ALASTAIR DAVID ; RICH CRAIG ; TIERNEY PAULINE HELEN

Inventor(s): PAULINE HELEN TIERNEY ; ALASTAIR DAVID MACKIE ; CRAIG RICH

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

Title: A comfort controls system

Abstract: A domestic heating system 20 serving a space-heating circuit 2 and a domestic hot waster circuit 4 has: a base unit 21 which is located next to boiler 7 and which monitors and controls operations of the system 20; a room unit 22 located in a room containing radiator 3 of the space-heating circuit 2; a mid-position valve 23; a cylinder sensor 24 and a frost kit 25. Base unit 21 has a microprocessor-run communications and control function to process appropriate information from the elements of system 20 and to ensure suitable operation of those elements at all times.

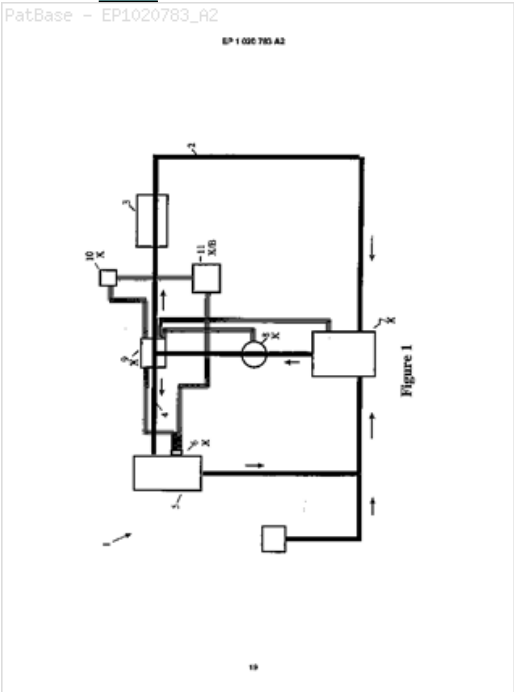
Classifications:

International (IPC 8-9): F24D19/10 (Advanced/Invention);
F24D19/00 (Core/Invention)

International (IPC 1-7): F16K31/4 F16K31/4 F24D19/10 G05D23/19

CPC: F24D19/1066

European: F24D19/10C4



Family:

Publication number	Publication date	Application number	Application date
EP1020783 A2	20000719	EP20000300234	20000114
EP1020783 A3	20010530	EP20000300234	20000114
GB200000797 A0	20000308	GB20000000797	20000114
GB2345765 A1	20000719	GB20000000797	20000114
GB2345765 B2	20010321	GB20000000797	20000114

Priority:

GB19990000741 19990114

Probable Assignee: HONEYWELL CONTROL SYST

Assignee(s): (std): HONEYWELL CONTROL SYST

Assignee(s): HONEYWELL CONTROL SYSTEMS LIMITED ; HONEYWELL CONTROL SYSTEMS LTD

Inventor(s): (std): MACKIE ALASTAIR D ; MACKIE ALASTAIR DAVID ; RICH CRAIG ; TIERNEY PAULINE HELEN

Inventor(s): PAULINE HELEN TIERNEY ; ALASTAIR DAVID MACKIE ; CRAIG RICH

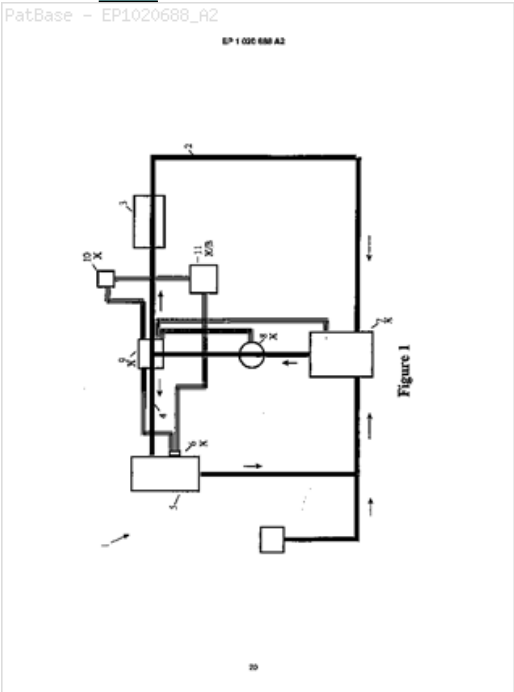
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Title: A comfort controls system

Abstract: A domestic heating system 20 serving a space-heating circuit 2 and a domestic hot waster circuit 4 has: a base unit 21 which is located next to boiler 7 and which monitors and controls operations of the system 20; a room unit 22 located in a room containing radiator 3 of the space-heating circuit 2; a mid-position valve 23; a cylinder sensor 24 and a frost kit 25. Base unit 21 has a microprocessor-run communications and control function to process appropriate information from the elements of system 20 and to ensure suitable operation of those elements at all times.

Classifications:

International (IPC 8-9): F24D19/10 (Advanced/Invention);
F24D19/00 (Core/Invention)
International (IPC 1-7): F16K31/04 F24D19/10 G05D23/19
CPC: F24D19/1066
European: F24D19/10C4



Family:

Publication number	Publication date	Application number	Application date
AT291202 E	20050415	AT20000300236T	20000114
DE60018620 D1	20050421	DE20006018620	20000114
EP1020688 A2	20000719	EP20000300236	20000114
EP1020688 A3	20010530	EP20000300236	20000114
EP1020688 B1	20050316	EP20000300236	20000114
GB200000799 A0	20000308	GB20000000799	20000114
GB2345766 A1	20000719	GB20000000799	20000114
GB2345766 B2	20010321	GB20000000799	20000114

Priority:

GB19990000740 19990114

Probable Assignee: HONEYWELL CONTROL SYST

Assignee(s): (std): HONEYWELL CONTROL SYST

Assignee(s): HONEYWELL CONTROL SYSTEMS LIMITED ; HONEYWELL CONTROL SYSTEMS LTD ; HONEYWELL CONTROL SYSTEMS LTD BRACKNELL

Inventor(s): (std): LIGHTFOOT DEREK W ; MACKIE ALASTAIR D ; MACKIE ALASTAIR DAVID

Inventor(s): ALASTAIR DAVID MACKIE ; DEREK W LIGHTFOOT

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

Title: A comfort controls system

Abstract: A domestic heating system 20 serving a space-heating circuit 2 and a domestic hot waster circuit 4 has: a base unit 21 which is located next to boiler 7 and which monitors and controls operations of the system 20; a room unit 22 located in a room containing radiator 3 of the space-heating circuit 2; a mid-position valve 23; a cylinder sensor 24 and a frost kit 25. Base unit 21 has a microprocessor-run communications and control function to process appropriate information from the elements of system 20 and to ensure suitable operation of those elements at all times.

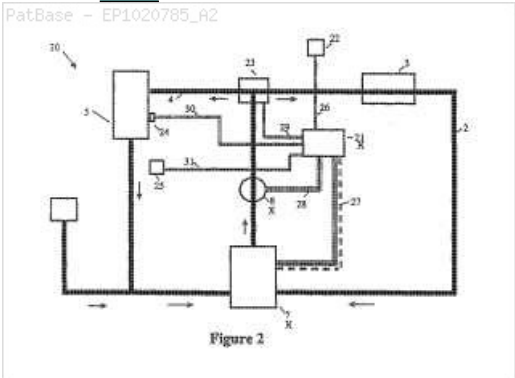
Classifications:

International (ipc 8-9): F24D19/10 (Advanced/Invention); F24D19/00 (Core/Invention)

International (ipc 1-7): F24D19/10 G05D23/19

CPC: F24D19/1066

European: F24D19/10C4



Family:

Publication number	Publication date	Application number	Application date
AT292299 E	20050415	AT20000300252T	20000114
DE60018999 D1	20050504	DE20006018999	20000114
EP1020785 A2	20000719	EP20000300252	20000114
EP1020785 A3	20010530	EP20000300252	20000114
EP1020785 B1	20050330	EP20000300252	20000114
GB200000798 A0	20000308	GB20000000798	20000114
GB2345748 A1	20000719	GB20000000798	20000114
GB2345748 B2	20010530	GB20000000798	20000114

Priority:

GB19990000733 19990114 GB19990000743 19990114

Probable Assignee: HONEYWELL CONTROL SYST

Assignee(s): (std): HONEYWELL CONTROL SYST

Assignee(s): HONEYWELL CONTROL SYSTEMS LIMITED ; HONEYWELL CONTROL SYSTEMS LTD ; HONEYWELL CONTROL SYSTEMS LTD BRACKNELL

Inventor(s): (std): MACKIE ALASTAIR D ; MACKIE ALASTAIR DAVID ; LIGHTFOOT DEREK W

Inventor(s): ALASTAIR DAVID MACKIE ; DEREK W LIGHTFOOT

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

Title: THERMAL DEMAND PRINTER

Abstract: A thermal demand printer for printing on media is a novel system which includes a case structure including a hinged cover panel, easily removable guide structures and media hanger, and a single central support wall to which the various components are attached. The printer includes a power supply circuit for receiving power from an external source and conditioning it for operation of the printer. An input device is provided for receiving command signals related to the operation of the printer. A control circuit for processing the command signals and generating corresponding control signals for controlling the operation of the printer and a printhead assembly for processing the control signals and generating corresponding control signals for controlling the operation of the printer are mounted in the case structure and coupled to the input device and the power supply circuit. The printhead assembly includes a printhead support structure which controls the printhead. A ribbon take-up spindle, method of operating the take-up spindle using a PMDC motor, and a spring wrap clutch device help to control the tension in the transfer ribbon used in the printer. The printer also includes a media sensor and a method of sensing media by way of detecting the opacity of the media passing through the sensor. The printer includes a method of printhead control using double data loading and a method of accelerating and decelerating media relative to the printhead using pulse width modulation.

Classifications:

International (IPC 8-9): B41J15/16 B41J17/02 B41J17/24 B41J17/32 B41J17/42 B41J2/32 B41J2/325 B41J2/35 B41J2/355 B41J2/36 B41J2/365 B41J25/304 B41J25/316 B41J29/00 B41J29/02 B41J29/13 B41J29/38 B41J29/393 B41J29/46 B41J3/36 B41J3/407 B41J33/14 B41J33/16 B41J33/22 B41J33/34 B41J35/08 B41J5/30 B65C11/02 B65H18/00 B65H19/12 B65H75/22 G07B1/00 (Advanced/Invention); B41J29/393 B41J35/04 (Core/Invention)

International (IPC 1-7): B41J11/42 B41J11/46 B41J15/16 B41J17/02 B41J17/24 B41J17/32 B41J17/42 B41J2/32 B41J2/325 B41J2/35 B41J2/355 B41J2/36 B41J2/365 B41J2/38 B41J25/304 B41J25/308 B41J25/312 B41J25/316 B41J25/34 B41J29/00 B41J29/02 B41J29/13 B41J29/38 B41J29/46 B41J3/36 B41J3/407 B41J33/14 B41J33/16 B41J33/22 B41J33/34 B41J33/52 B41J5/30 B65H18/00 B65H19/12 B65H75/22 F16D7/02 G07B1/00

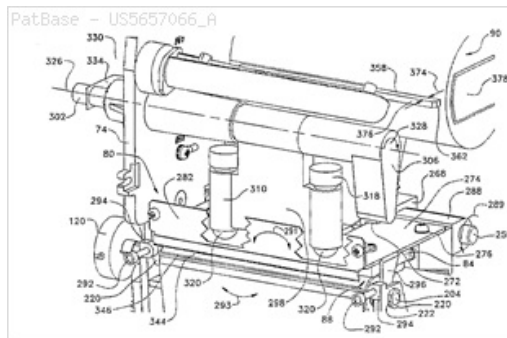
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European: B41J17/02 B41J17/24 B41J17/42 B41J2/325 B41J2/355 B41J2/365 B41J25/304 B41J29/02 B41J29/38 B41J29/393 B41J3/407 B41J35/08 B65C11/02C L65C210/00B8B L65C210/00B8B2

US: 16/225 16/227 242/415.1 242/571 242/571.4 242/571.5 242/573.9 347/171 347/186 347/188 347/194 347/198 347/217 347/218 347/222 400/225 400/234 400/236 400/236.2 400/692 400/693 400/708 400/709 D8/325

JP F-Term: 2C061 2C061/AP10 2C061/AQ04 2C061/AS06 2C061/AS08 2C061/HJ01 2C061/HK01 2C061/HK07 2C061/HK10 2C061/HK19 2C061/HV01 2C064 2C064/CC02 2C064/CC06 2C064/CC11 2C064/CC13 2C064/CC14 2C064/EE01 2C064/EE07 2C064/EE12 2C064/EE18 2C065 2C065/AB01 2C065/AB03 2C065/AD01 2C065/AD02 2C065/CC05 2C065/CC07 2C065/CC10 2C065/CC14 2C065/CC15 2C065/CC16 2C065/CC22 2C065/CC24 2C061/AQ06 2C061/HJ06 2C061/HN15 2C087 2C087/AA07 2C087/AB05 2C087/AC05 2C087/AC08 2C087/BA05 2C087/BA06 2C087/BD42 2C187 2C187/AC01 2C187/AC05 2C187/AC06 2C187/AC07 2C187/AD05 2C187/AF06 2C187/AG08 2C187/BF09 2C187/BF14 2C187/BF41 2C187/BF44 2C187/BF45 2C187/BF50 2C187/BG03 2C187/BH13 2C187/BH16 2C187/BH17 2C187/BH22 2C187/BH23 2C187/CC16 2C187/CC17 2C187/CD05 2C187/CD08 2C187/FA02 2C187/FA05 2C187/FC08 2C187/HA09 2C061/AS16 2C061/BB08 2C061/BB10 2C061/BB30 2C061/CD09 2C061/HJ10 2C061/HK11 2C068 2C068/FF08 2C068/FF13 2C068/FF14 2C068/GK02 2C068/GK18 2C068/GL01 2C068/NN28 2C066 2C066/AA03 2C066/AA12 2C066/AC13 2C066/CA23 2C066/CC06 2C066/CE03 2C066/CE04 2C066/CE06 2C066/CE08 2C066/CE12 2C066/DA02 2C066/DA08 2C066/DA17 2C061/AS14 2C061/HH07 2C061/HJ02 2C061/HK03 2C061/HK05 2C061/HK06 2C061/HK18 2C061/HK23 2C061/HN05 2C061/HQ20 2C066/AB09 2C066/AC01 2C066/CA05 2C066/CA09 2C066/CA13 2C066/CA21 2C066/CZ03 2C066/CZ05 2C055 2C055/CC00 2C060 2C060/CA13 2C068/AA06 2C068/AA15 2C068/GK01 2C068/GK04 3F055 3F055/AA05 3F055/CA24 3F055/FA05 3F064 3F064/AA03 3F064/EB14 3F064/FA04 2C065/DA12 2C065/DA20 2C065/DA22 2C068/GG01

JP F-Index: B41J2/32/C B41J25/28/Z B41J25/30/U B41J25/304/F B41J25/304/U B41J29/38/Z B41J29/46 B41J3/20/109/C B41J29/00/A B41J5/30/B B41J17/24 B41J29/12/A B41J29/13 B41J2/36/E B41J3/20/115/E B41J2/35/Z B41J2/365 B41J3/20/114/Z B41J3/20/115/A B41J15/16 B41J17/32/Z B41J3/36/T B41J33/22 B65H18/00 B65H19/12/C B41J2/325/A B41J3/20/117/A B41J33/34



Family:

Publication number	Publication date	Application number	Application date
CA2141869 AA	19950206	CA19932141869	19930930
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CA2259798 C	20031104	CA19932259798	19930930
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EP0670785 B1	19980610	EP19930923748	19930930
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JP2000127563 A2	20000509	JP19990342329	19991201
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US5657066 A	19970812	US19920957262	19921002
US5790162 A	19980804	US19970790673	19970123
US5872585 A	19990216	US19970789950	19970127
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US5995128 A	19991130	US19990282494	19990331
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US6034708 A	20000307	US19970789166	19970124
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WO9407702 A1	19940414	WO1993US09327	19930930

Priority:

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Probable Assignee: ZIH CORP

Assignee(s): (std): KAUFMAN JEFFREY R ; MONNIER DAN E ; NAEGELE KENNETH V ; PLATT MICHAEL K ; POOLE DAVID L ; WEST DAVID A ; ZUBRISKI DAVID S ; ZWIER THOMAS P ; ZEBRA TECHNOLOGIES CORP ; ZIH CORP ; ZEBRA TECHNOL CORP ; ADAMS VINCENT C ; DONATO DANIEL F ; ENSINGER JAMES W ; HAMMAN WILLIAM J

Assignee(s): JPMORGAN CHASE BANK NA SUCCESSOR AGENT AS ; ZIH CORP WILMINGTON ; ZEBRA TECHNOLOGIES CORP VERNON HILLS ILL US ; MORGAN STANLEY SENIOR FUNDING INC COLLATERAL AGENT AS

Inventor(s): (std): ZUBRISKI DAVIS S ; ZUBRISKI DAVID S ; WEST DAVID A ; POOLE DAVID L ; PLATT MICHAEL K ; NAEGELE KENNETH V ; ZWIR THOMAS P ; ZWIER THOMAS P ; MONNIER DAN E ; KAUFMAN JEFFREY R ; HAMMAN WILLIAM J ; ENSINGER JAMES W ; DONATO DANIEL F ; ADAMS VINCENT C

Inventor(s): KAUFMAN R ; ZUBRISKI S ; MONNIER E

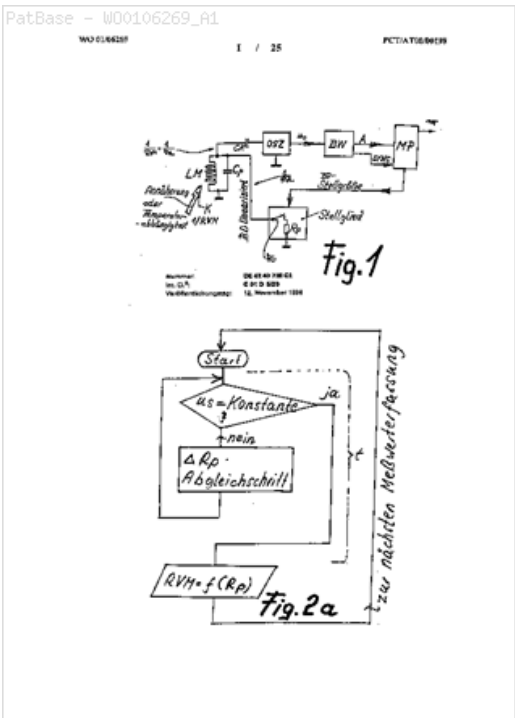
Agent(s): SMART AND BIGGAR

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

Title: METHOD FOR MEASURING LOSS

Abstract: The invention relates to an improvement of DE 42 40 739 C2 for measuring a loss (1/RVM) coupled to a measuring circuit (LM, Cp), whereby the loss is ohmically or inductively coupled to a measuring coil (LM) or additionally by means of a capacitance. The circuit is characterized in that it influences measurement with a loss (1/RVL) by means of a **resistance** value (Rp) that can be regulated by an adjustment signal (BD) at a constantly switched measuring value (1/RVM). The measured value (mp) is detected in several (at least two) measuring steps (t1, t2) in which the adjustable **resistor** (Rp) is variably adjusted.

Classifications:
International (IPC 8-9): G01D5/20 G01R27/26 (Advanced/Invention);
G01D5/12 G01R27/26 (Core/Invention)
International (IPC 1-7): G01D5/20 G01R27/26
CPC: G01D5/2013 G01R27/2611
European: G01D5/20B1 G01R27/26C



Family:

Publication number	Publication date	Application number	Application date
AU2000061385 A1	20010205	AU200000061385	20000717
AU2000061385 A5	20010205	AU200000061385D	20000717
DE10082058 D2	20030618	DE20001082058	20000717
WO0106269 A1	20010125	WO2000AT00198	20000717
WO0106269 C2	20020829	WO2000AT00198	20000717

Priority:

AT19990001230 19990715 WO2000AT00198 20000717

Probable Assignee: KOLLER ROMAN

Assignee(s): (std): KOLLER ROMAN

Assignee(s): ROMAN KOLLER

Inventor(s): (std): KOLLER ROMAN

Inventor(s): ROMAN KOLLER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ 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 MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: Adaptive nulling hyperthermia array

Abstract: A hyperthermia array uses adaptive nulling with non-invasive auxiliary probes to reduce the electric field intensity at selected positions in the target body while maintaining a desired focus at a tumor thereby avoiding or reducing the occurrences of "hot spots" during ultrasonic or R.F. hyperthermia treatment. A hyperthermia applicator has an annular phased array of electric field radiators coupled to a source of electric radiation through a controllable transmit weighting network to control the phase and amplitude of the electric field radiation transmitted. The transmit weighting networks respond to feedback signals from a controller coupled to electric field probes which receive the electric field radiation from the radiators. The controller adjusts the feedback signals in response to the received electric field radiation so that the electric field radiation is minimized at the electric field probes. A secondary electric field probe is placed at the focus of the array and the controller adjusts the feedback signals to maximize the electric field radiation at the secondary probe. A matrix inversion algorithm or a gradient search algorithm is used to adjust the feedback signals controlling the transmit weighting networks in response to the electric field energy received by the electric field probes.

Classifications:

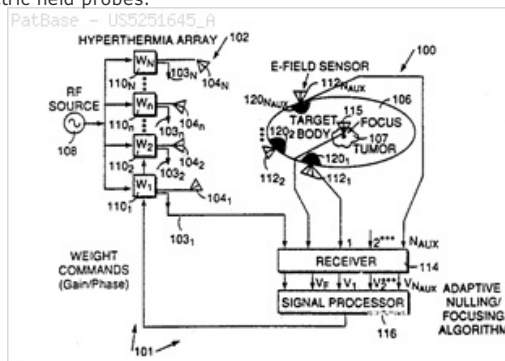
International (IPC 8-9): A61N5/02 A61N5/04 (Advanced/Invention)

International (IPC 1-7): A61N5/00 A61N5/02

CPC: A61N5/02 A61N5/04

European: A61N5/02 A61N5/04

US: 600/407 600/412 600/427 607/101 607/154 607/156



Family:

Publication number	Publication date	Application number	Application date
CA2177280 AA	19960523	CA19942177280	19941122
CA2177280 C	20001121	CA19942177280	19941122
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EP0731721 A1	19960918	EP19950903600	19941122
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HK1002830 A1	19980918	HK19980101911	19980309
US5251645 A	19931012	US19910722612	19910626
US5441532 A	19950815	US19920846808	19920304
US5540737 A	19960730	US19930157928	19931124
WO9300132 A1	19930107	WO1992US05464	19920626
WO9514505 A1	19950601	WO1994US13564	19941122

Priority:

US19910722612 19910626 US19920846808 19920304 US19930157928 19931124
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Probable Assignee: MASSACHUSETTS INST OF TECHNOLOGY

Assignee(s): (std): MASSACHUSETTS INST TECHNOLOGY

Assignee(s): MASSACHUSETTS INSTITUTE OF TECHNOLOGY ; MASSACHUSETTS INST OF TECHNOLOGY A CORP OF MASSACH ; MASSACHUSETTS INSTITUTE OF TECHNOLOGY CAMBRIDGE MASS US ; AIR FORCE UNITED STATES ; FENN ALAN J ; MASSACHUSETTS INST ; MASSACHUSETTS INST OF TECHNOLOGY

Inventor(s): (std): FENN ALAN ; FENN ALAN J

Agent(s): SMART AND BIGGAR

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

Title: FLAVOR GENERATING ARTICLE

Abstract: An article is provided in which a flavor generating medium is electrically **heated** to evolve inhalable flavors or other components in vapor or aerosol form. The article has a plurality of charges of the flavor generating medium which are **heated** sequentially to provide individual puffs.

Classifications:

International (IPC 8-9): A24F47/00 A61M15/06 (Advanced/Invention);
A61M15/06 (Advanced/Non-invention);
A24F47/00 A61M15/06 (Core/Invention)
International (IPC 1-7): A24D1/00 A24D1/18 A24F47/00 A47J27/026
A61M15/06 H05B3/14 H05B3/40

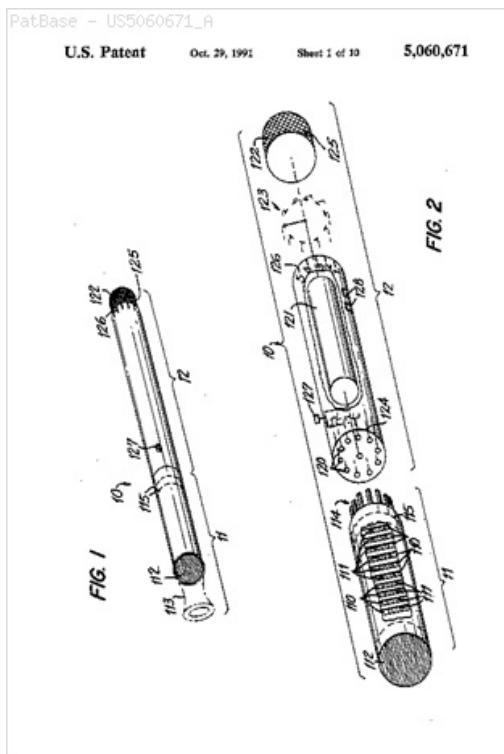
CPC: A24F47/008

European: A24F47/00B2E

US: 128/200.14 128/202.21 128/203.17 128/203.26 128/203.27
131/128 131/194 131/195 131/196 131/200.14 131/202.21
131/203.26 131/203.27 131/273 131/329 131/335

JP F-Term: 4B062 4C103

JP F-Index: A24F47/00 A61M15/06/A



Family:

Publication number	Publication date	Application number	Application date
AT120931 E	19950415	AT19900312672T	19901120
AU199067622 A1	19910606	AU19900067622	19901130
AU642448 B2	19931021	AU19900067622	19901130
CA2031227 AA	19910602	CA19902031227	19901130
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EP0430566 A2	19910605	EP19900312672	19901120
EP0430566 A3	19920603	EP19900312672	19901120
EP0430566 B1	19950412	EP19900312672	19901120
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NO176463 B	19950102	NO19900005151	19901128
NO176463 C	19950412	NO19900005151	19901128
NO905151 A	19910603	NO19900005151	19901128
NO905151 A0	19901128	NO19900005151	19901128
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US5269327 A	19931214	US19910741736	19910807

Priority:

US19890444746 19891201 CA19902031227 19901130 US19910741736 19910807

Probable Assignee: PHILIP MORRIS INT INC

Assignee(s): (std): PHILIP MORRIS ; PHILIP MORRIS INC ; PHILIP MORRIS PROD ; PHILIP MORRIS INT INC

Assignee(s): COUNTS MARY E ; LAROY BERNARD C ; LOSEE D BRUCE JNR ; MORGAN CONSTANCE H ; PHILIP MORRIS PRODUCTS INC ; PHILIP MORRIS PROD INC ; PHILIP MORRIS PRODUCTS INC RICHMOND VA US ; SMITH ULYSSES ; UTSCH FRANCIS V ; SPRINKEL F MURPHY JNR ; PHILIP MORRIS INC 120 PARK AVENUE NEW YORK NEW YORK 10017 A CORP OF VA

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VIRGINIA 23112 US ; MARY E COUNTS ; LOSEE BRUCE D JR RICHMOND VIRGINIA 23221 US ; LAROE
BERNARD C RICHMOND VIRGINIA 23112 US ; D BRUCE LOSEE JNR ; F MURPHY SPRINKEL JNR ;
FRANCIS V UTSCH ; COUNTS MARY E RICHMOND VIRGINIA 23230 US ; BERNARD C LAROE ;
CONSTANCE H MORGAN

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP

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

Title: METHOD AND APPARATUS FOR MANAGING STEAM SYSTEMS

Abstract: A steam system management method and apparatus includes a condensate collection reservoir with a pilot operated, pressure actuated dump valve that has a quick, snap action fully open/fully closed mode of operation. The pilot operation of the dump valve is actuated by a very low voltage solenoid actuator **powered** by a thermal-electric generator which thermionically converts **heat** from the steam system directly to electricity. Condensate dumps are controlled by liquid level sensing switches positioned near the top and bottom of the reservoir and electrically connected to a relay logic that turns the solenoid on and off. **Temperature sensors** positioned in the steam system and adjacent the thermal-electric generator are utilized in combination with the thermal electric generator and a microprocessor to monitor the air content in the steam system and to open the dump valve to purge excess air from the steam system. A voltage converter and voltage regulator are provided to convert very low voltage output from the thermal-electric generator to a higher voltage necessary to operate the microprocessor, and management information output displays are provided to indicate valve status, modes of operation, quantities of condensate dumped, and failure alarm.

Classifications:

International (IPC 8-9): F16T1/00 F16T1/45 (Advanced/Invention);
F16T1/00 (Core/Invention)

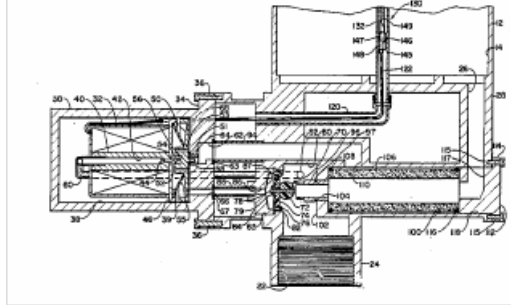
International (IPC 1-7): F16T1/02

CPC: F16T1/45 F16T1/00 Y10T137/3003

European: F16T1/00 F16T1/45

US: 137/171 230/84 236/54 236/84

PatBase - US4705212_A



Family:

Publication number	Publication date	Application number	Application date
US4705212 A	19871110	US19830565362	19831227

Priority:

US19830565362 19831227

Probable Assignee: ENGINEERING MEASUREMENTS CO

Assignee(s): (std): ENGINEERING MEASUREMENTS CO

Inventor(s): (std): MILLER CHARLES E ; POLAND ROBERT L ; YOSHIDA LOUIS T

Title: ULTRASONIC TREATMENT OF ANIMALS

Abstract: To provide ultrasonic treatment of animals, ultrasonic waves in a frequency range of between 15 kilohertz and 100 kilohertz are applied to water in a tub with a **power** density between 0.1 and 5 watts per square centimeter. The equipment is able to apply ultrasonic waves with at least two **power** densities in the vicinity of the portion of the animal with one of said **power** densities being more than 15 watts per square meter for sterilizing the water before the patient enters the tub and the other being less than 15 watts per square meter.

Classifications:

International (ipc 8-9): A61D11/00 A61H23/00 A61H23/02

A61H33/00 A61H35/00 A61L2/02 A61L2/025 B06B1/02

B08B3/12 (Advanced/Invention);

A61L2/02 (Advanced/Non-invention);

A61H23/02 A61H33/00 A61H35/00 A61L2/02

B08B3/12 (Core/Invention);

A61L2/02 (Core/Non-invention);

A61N (Subclass/Invention)

International (ipc 1-7): A61B17/22 A61B19/00 A61D11/00

A61H1/00 A61H23/00 A61H23/02 A61H33/00 A61L2/00 A61L2/02

A61M25/00 A61N B01D19/00 B06B1/02 B08B3/12

CPC: A61H33/60 A61H2033/0029 A61L2/025 B06B1/0207 B08B3/12

A61H23/0245 A61H33/00 A61H35/00 A61H2033/0054 A61H2033/007

A61H2203/03 B08B2203/002

European: A61H23/02P A61H33/00 A61H35/00 A61L2/025

B06B1/02D B08B3/12 K61H203/03 K61H33/00A4F K61H33/00E1L

K61H33/00E1S4 K61L2/02A L08B203/00A

US: 128/24A 128/24AA 128/660.03 422/20 55/279 600/439 601/2

601/4 604/22 95/262 95/30 96/175 96/220 96/227

JP F-Term: 4C058 4C058/AA28 4C058/AA30 4C058/BB06

4C058/BB07 4C058/BB09 4C058/CC02 4C058/DD01 4C058/DD03

4C058/EE29 4C058/JJ06 4C058/KK07 4C058/KK46 4C074

4C074/AA00 4C074/AA10 4C074/BB05 4C074/BB06 4C074/CC03

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4C074/GG07 4C074/HH04 4C074/HH05 4C074/HH09 3B201

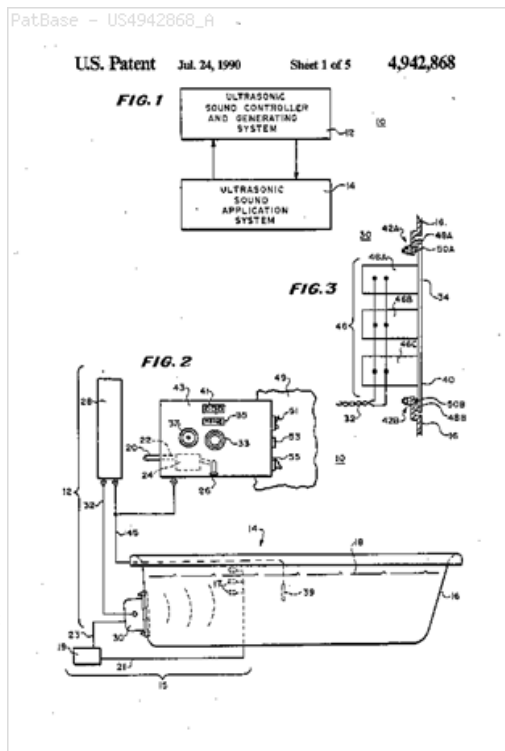
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3B201/CD43 4C074/HH07

JP F-Index: A61H23/02/341 A61H23/02/384 A61L2/02/A A61L2/025

A61L2/18 A61L2/16 B08B3/12/B

**Family:**

Publication number	Publication date	Application number	Application date
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NO891321 A0	19890329	NO19890001321	19890329
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Priority:

US19880175936 19880330	US19890322128 19890310	FI19890001461 19890328
CA19890595027 19890329	EP19890850100 19890329	JP19890080192 19890330
US19910726948 19910708	US19910753008 19910823	US19920967670 19921028
CA19932109373 19931027	US19940180676 19940113	FI19950003652 19950731
US19960584774 19960111		

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- Assignee(s):** (std): MALMROS HOLDING INC ; ARJO INC ; AAJIYO INC ; ARJO HOSPITAL EQUIPMENT AB ; MARUMUROSU HOLDING INC
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- Inventor(s):** VAGO ROBERT EDWARD NORTHBROOK ILLINOIS 60062 US
- Agent(s):** RIDOUT AND MAYBEE LLP
- Designated states:** BE DE DK ES FR GB GR IE IT LU NL SE

Title: Variable capacity type swash plate compressor

Abstract: A variable capacity type swash plate compressor has a shaft, a swash plate, pistons functionally connected with the swash plate, and a detector for detecting the reciprocating stroke of the piston. The reciprocating stroke of the piston is varied in accordance with an inclining angle of the swash plate in such a manner that a top dead point of the piston at a working chamber defined at one end of the piston is substantially constant. The detector detects the change of the width of the reciprocating stroke of the piston and **calculating** the capacity of the compressor. The detector employs a plurality of magnets provided on a center portion of the piston and an electromagnetic **sensor** provided on a cylinder block for facing to the magnets.

Classifications:

International (IPC 8-9): F04B25/04 F04B27/12 F04B27/14 F04B27/18 F04B49/06 (Advanced/Invention);

F04B27/14 (Advanced/Non-invention);

F04B25/00 F04B27/10 F04B27/14 F04B49/06 (Core/Invention)

International (IPC 1-7): F04B1/26 F04B1/28 F04B21/04 F04B25/04 F04B27/08 F04B49/06 F04B49/10

CPC: F04B27/12 F04B27/18 F04B49/065

European: F04B27/12 F04B27/18 F04B49/06C

US: 417/222.1 417/270 417/63

JP F-Term: 3H076 3H076/AA07 3H076/BB03 3H076/BB10

3H076/BB26 3H076/BB28 3H076/BB41 3H076/BB45 3H076/CC12

3H076/CC20 3H076/CC27 3H076/CC28 3H076/CC31 3H076/CC36

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JP F-Index: F04B27/08/S F04B27/16

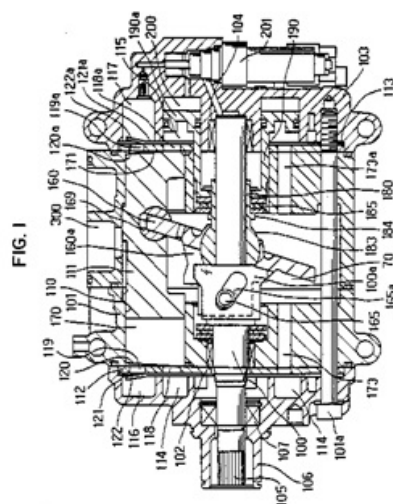
PatBase - US5022826_R

U.S. Patent

June 11, 1991

Sheet 1 of 32

5,022,826



Title: Braking control system for an electric vehicle

Abstract: A regenerative braking control system consumes energy generated in a period corresponding to an angle θ_1 which starts in a half of a period of an AC voltage produced in a drive motor during the braking of the drive motor. The regenerative braking control system also consumes energy generated in a period corresponding to an angle θ_2 that ends at the end of a half of a period of the AC voltage. The regenerative rate of braking control system utilizes a current induced in the driving coils of the drive motor at the end of the period corresponding to the angle θ_1 to recharge a battery. By utilizing two periods to carry out the regenerative braking process, the recharging energy and the braking force can be controlled individually. Moreover, a controller monitors the electric control system to determine whether a malfunction is present. If a malfunction is detected, an electrical brake electrically brakes the drive motor. This electrical braking after the detection of a malfunction in the electrical system provides satisfactory controllability of the electric vehicle.

Classifications:

International (IPC 8-9): B60L11/18 B60L3/00 B60L3/08 B60L7/00 B60L7/10 B60L7/12 B60L7/16 H02P6/24 (Advanced/Invention); B60L3/00 B60L3/08 B60L7/00 H02P6/00 (Core/Invention)

International (IPC 1-7): B60L11/18 B60L3/00 B60L3/08 B60L7/00 B60L7/10 B60L7/12 B60L7/16 H02K7/10 H02P3/00 H02P6/02 H02P6/24

CPC: B60L3/0023 B60L7/10 B60L11/1805 Y02T10/642

European: B60L11/18E B60L3/00F B60L7/10 Y02T10/70B

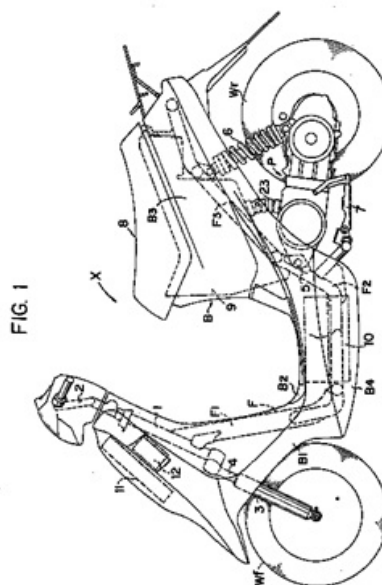
US: 318/369 318/371 318/375 318/376

JP F-Term: 5H107 5H107/AA01 5H107/BB04 5H107/CC07 5H107/DD02 5H107/FF03 5H107/FF04 5H107/HH01 5H107/HH20 5H115 5H115/BA06 5H115/BB10 5H115/BC07 5H115/CA01 5H115/CB24 5H115/EE02 5H115/EE03 5H115/JC17 5H115/JC30 5H115/KC10 5H115/KD05 5H115/KD10 5H115/PA01 5H115/PC06 5H115/PG04 5H115/PG10 5H115/PI16 5H115/PU01 5H115/PU02 5H115/PV24 5H115/QI03 5H115/QI04 5H115/TD00 5H115/TO05 5H115/TO30 5H115/TW10 5H115/TZ05 5H115/TZ10 5H125 5H125/AA01 5H125/AC12 5H125/BA02 5H125/BB02 5H125/CB01 5H125/CB02 5H125/EE03 5H125/EE05 5H125/EE15 5H125/EE23 5H125/EE31 5H560 5H560/AA08 5H560/BB04 5H560/BB07 5H560/BB12 5H560/DA02 5H560/DA19 5H560/DC05 5H560/DC20 5H560/EA02 5H560/EB01 5H560/EC01 5H560/EC10 5H560/FF14 5H560/HB01 5H560/HB02 5H560/JJ01 5H560/JJ19 5H560/SS02 5H560/UA02 5H107/BB10 5H107/CC05 5H107/EE03 5H107/EE07 5H107/EE22 5H107/EE23 5H107/JJ03 5H115/PI11 5H115/PI29 5H115/PU11 5H115/PV03 5H115/PV07 5H115/PV22 5H115/PV23 5H115/QE08 5H115/RB08 5H115/SE03 5H115/TB01 5H115/TE03 5H115/TI05 5H115/TR19 5H115/UI27 5H115/UI29 5H125/AB03 5H125/BA00 5H125/EE08

JP F-Index: B60L3/00/J B60L3/08/N B60L7/00/C H02P6/02/371/L H02P6/06 H02P6/08 H02P6/24 B60L7/12/Q B60L7/16

PatBase - US5384522_A

U.S. Patent Jan. 24, 1995 Sheet 1 of 26 5,384,522



Family:

Publication number	Publication date	Application number	Application date
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DE69221760 T2	19980102	DE19926021760T	19920407
DE69228567 D1	19990408	DE19926028567	19920407
DE69228567 T2	19990617	DE19926028567T	19920407
DE69229961 D1	19991014	DE19926029961	19920407
DE69229961 T2	19991223	DE19926029961T	19920407
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EP0508367 B1	19970827	EP19920105981	19920407
EP0663312 A1	19950719	EP19950104972	19920407
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EP0663313 A1	19950719	EP19950104980	19920407
EP0663313 B1	19990908	EP19950104980	19920407
JP3155313 B2	20010409	JP19910299562	19911021
JP3160308 B2	20010425	JP19910105098	19910411
JP4312301 A2	19921104	JP19910105098	19910411
JP5176404 A2	19930713	JP19910299562	19911021
US5384522 A	19950124	US19920866339	19920409
US5644202 A	19970701	US19960592601	19960126

Priority:

JP19910103324 19910409 JP19910105098 19910411 JP19910299562 19911021
 EP19920105981 19920407 US19920866339 19920409 US19940292193 19940818
 US19960592601 19960126

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s): (std): HONDA MOTOR CO LTD ; HONDA MOTOR

Assignee(s): HONDA GIKEN KOGYO K K ; HONDA GIKEN KOGYO K K TOKIO TOKYO ; HONDA GIKEN KOGYO K K TOKIO TOKYO JP ; HONDA GIKEN KOGYO KABUSHIKI KAISHA ; HONDA GIKEN KOGYO KK

Inventor(s): (std): FUJII TAKAAKI ; HONDA SATOSHI ; MOTODATE SHIYOUJI ; MOTODATE SHOJI ; NAKAZAWA YOSHIHIRO ; SASAKI SHIGEMI ; TORIYAMA MASAYUKI ; TORIYAMA MASAYUKI C O K K HOND ; TORIYAMA MASAYUKI C O HONDA KK ; TAMAKI KENJI C O K K HONDA GIJ ; SASAKI SHIGEMI C O K K HONDA G ; NAKAZAWA YOSHIHIRO C O K K HON ; NAKAZAWA YOSHIHIRO C O HOND KK ; MOTODATE SHOJI C O K K HONDA GI ; FUJII TAKAAKI C O K K HONDA GI ; FUJII TAKAAKI C O K K HONDA GIJ ; TORIYAMA MASAYUKI C O KK HONDA ; NAKAZAWA YOSHIHIRO C O KK HOND ; FUJII TAKAAKI

Inventor(s): NAKAZAWA YOSHIHIRO C O K K HONDA GIJUTSU ; MOTODATE SHOJI C O K K HONDA GIJUTSU

Designated states: DE FR GB IT

Title: OPTICAL ABSORPTION GAS ANALYZER

Abstract: Source: SU890171T **Machine translation:** Invention relates to analytical instrumentation, more particularly, to an optical gas analyzers. Known optical absorption gas analyzer comprising a radiation source, a modulator, a cell with a sample gas and radiation receiver. The disadvantage of this analyzer is a large error caused by the influence of environmental conditions. The closest to the invention, L is an optical absorption gas analyzer comprising a radiation source, modulator and comparative gas chamber radiation receiver with two chambers, at least one of which is a lucheprism chamber, the inner cavity of which is limited by the window and the inner wall surface of the mirror camera converter radiation into an electrical signal. The disadvantage of this analyzer is low reliability as due to incomplete sealing chambers lucheprism mixture composition is constantly changing due to leakage. Furthermore, the use of radiation as a transducer into an electrical signal microphone imposes severe limitations on the operating conditions of the gas analyzer as well as the absence of vibration, shock, etc. The aim of the invention is to increase reliability and simplify the structure. This object is achieved in that the optical absorption gas analyzer comprising a radiation source, a modulator and a comparison working chamber with the radiation receiver the two chambers, at least one of which is a lucheprism chamber, wherein the inner cavity or mited window and the inner mirror surface of the chamber wall and the inverter radiation into electrical signal, operating and comparative camera combined with camera radiation receiver and the transmitter radiation into an electrical signal is in the form of a flow meter. Furthermore, the ratio of the smallest width of the inner cavity to the diameter of the chamber lucheprism window - no less than two. In addition, the inner wall surface of the mirror-lucheprism chamber is spherical. The drawing schematically shows the proposed device. Gas analyzer includes a radiation source 1 and 2 reflector, designed to direct radiation through the window into the cavity 3 and k lucheprism chamber radiation receiver. Lucheprism limited window cavity 3 and 5 with the inner wall of the spherical surface of the mirror, the radius of curvature of which is denoted by R. Wall 5 lucheprism camera collected for example, from two hemispherical concave mirrors, one of which IME is in the center of the hole for the window 3. Synchronous motor 6 drives the obturator module that radiation containing metal blade, separated by transparent Thorn sec intervals or prochedno (direction of rotation) located (without gaps transparent) optical filters 7 and 8c. When determining the water vapor in the air can be used as the last plate of known lithium fluoride and calcium fluoride. A small portion Tsevan ring modulator 9 is made of a magnetic material and is used together with the transducer 10 as a reference signal sensor for synchronous detection operation signal. receiver refraction sales region is internal: it is placed directly into the cavity 11 other camera - outdoor. The cavity 1 is separated from the environment housing 12 (it is, for example, from two parts fastened together by conventional means so as to be after lucheprism installed inside the chamber) and a diffusion dust filter 13, for example, ceramic, through which the atmospheric air is continuously analyzed by diffusion enters directly into the cavity 11 and into the cavity through an opening in the wall 5 k lucheprism chamber. Cavities 11 are connected to a channel 15 inside which consecutively installed thermistors 16 and 17. Principle of operation of the gas analyzer is the following. When rotating the filter 7 and 8 into the cavity radiation is modulated. It appears on the spectral region where the absorbing component defined by the test mixture. The modulated radiation absorbing lucheprism. Referring to the cavity 4, it causes the oscillation of the temperature of the gas mixture. Lastly periodically expands and contracts (pulsing). In this part of the mixture periodically with frequency modulation of radiation from the cavity flows into the cavity 11 k and back through opening 14 and channel 15 in which the downstream sequentially arranged heated electrocution thermistors 16 and 17 senses this intermittent flow of the gas mixture. Indeed, in the absence of gas flow between the cavities A and 11 of the gaseous medium surrounding the thermistors, motionless. Both thermistor heated by Joule heat to almost the same temperature ustanovivsheys. If you have a gas flow between the cavities vary cooling conditions thermistors. These changes are not the same as the gas flow carries heat from one thermistor to another: the gas flow from cavity to cavity 11 carries heat from the thermistor 16 to 17 thermistor. Last It appears more heated. Rather than the first, opposite flow direction (from the hollow cavity 11 to k) takes heat from the thermistor 17 to the thermistor 16. thermistor 17 is cooled more than the thermistor 16. Since the gas flow is varied with the frequency of modulation is the same frequency occurs additional variable heat flux between 58 thermistors estimates for partial heat transfer gas stream. Depending on changes in direction of gas flow is changed and the temperature difference value thermistors. The absolute value of temperature difference is greater, the greater the gas flow. Periodic oscillation temperature difference thermistors 16 and 17 are received in the measurement system and converted into a signal measurement information. measuring system input has capacitors 18 and 19, forming with the thermistors 16 and 17 nonequilibrium bridge. Capacitors introduced to achieve the maximum output signal; it is achieved when the conditions CURC 1 where Oy - circular modulation frequency radiation (circular frequency of the signal); R - nominal thermistor resistance; C - capacitors. One diagonal of the bridge is connected to a power supply 20 DC, and the other through the coupling capacitor 21 - 22 to the input AC signal amplifier. -signal after amplification amplifier 22 vypr ml are synchronous detector 23 (switching synchronous detection; Vani effected with frequency modulation of radiation, in conventional manner, e.g. the reference signal from the converter 10) and fed through a linearizer gr. adurovochny characteristics 2k analyzer (it may be formed on the nonlinear element such as a semiconductor diode) at the input device 25. switch 2b and error corrector 27 (eg nonequilibrium Wheatstone bridge resistance of the legs of which are selected dependent on schimi voltage mains, ambient temperature, and if necessary, from atmospheric pressure) are designed for. periodic monitoring of the transmission coefficient of output circuitry analyzer (and, first and foremost, control amplifier gain) during its operation.. When controlling the switch closes the contacts and 2b through error corrector 27 serves reference AC signal (if necessary through additional decoupling capacitor) the input of the amplifier 22. 714 Source regulated d.c. voltage connected to an input 28 of the calibration characteristics of the linearizer. This source provides a signal which is algebraically summed with the rectifying operating signal (dependent on the concentration defined by the component, in the test mixture) before linearization of the calibration characteristics. Channel 28 is used for detecting small concentrations sufficiently defined by the component in the mixture (naprimer. pogloschayuschih impurity radiation in air), when the can of vits signal generated due to absorption of radiation modulated by the mirror wall lucheprism chamber (even when there is no defined by the component of the test mixture).. In this case, the polarity and magnitude of the additional signal from the source 28 are selected such that the inlet linearizer 2 was almost equal to zero when the total resultant signal defined by the absence of a component in the mixture being analyzed. Combining work and comparative cameras with camera radiation receiver, optimizing the size of the camera instead of the use of temperature-sensitive elements microphone - significantly improve the reliability of the gas analyzer, its resistance to vibration, significantly reduce the cost of obtaining information by increasing the time of use, so., and by simplifying the operation. claims 1. optical absorption analyzer comprising a radiation source, a modulator and a relative working chamber, a radiation receiver with two chambers, at least one of which is a lucheprism chamber, the inner cavity of which is limited by the window and the mirror surface of the inner chamber walls and transducer radiation into an electrical signal, characterized in that in order to increase the reliability and simplify the design, the operating and comparative chamber prism chambers aligned with the radiation transmitter and the radiation into an electrical signal formed as the gas flow rate meter. 7.; The analyzer according to 2 n1, about t lichayuschyis that otsshenie smallest width of the inner cavity to the diameter of the chamber lucheprism qkHa - not less than two. 3. analyzer according to claim 1, for t lichayuschyis fact-that the inner wall surface of the mirror-lucheprism chamber is spherical. 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Classifications:

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Title: REVERSE OSMOSIS DEVICE

Abstract: The device for producing ultrapure water according to the reverse osmosis principle, comprising a reverse osmosis filter which is subdivided by the RO membrane into a primary circuit and into a secondary circuit, and a pump for the primary circuit, and a **flow resistance** means required downstream of the RO membrane for pressure build-up in the primary circuit, is characterized in that at least one cleaning chamber with decalcification means and a discharge valve are located in the primary circuit and that the **flow** in the primary circuit is adjustable via a valve.

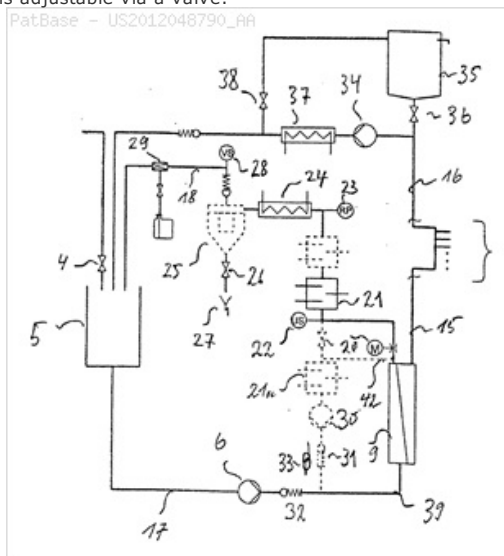
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CPC: C02F9/00 C02F1/008 C02F1/36 C02F1/385 C02F1/441 C02F1/4602 C02F1/4672 C02F1/48 C02F1/481 C02F1/484 C02F1/485 C02F2001/46133 C02F2001/46152 C02F2103/026 C02F2103/04 C02F2201/003 C02F2201/46115 C02F2201/46175 C02F2209/008 C02F2209/04 C02F2209/11 C02F2301/026 C02F2301/046 C02F2303/04 C02F2303/10 C02F2303/16 C02F2303/20 C02F2303/22 Y02W10/30

European: C02F9/00 M02F1/00T M02F1/36 M02F1/38B M02F1/44B M02F1/461B2J M02F1/461B2L M02F1/467B M02F1/46C M02F1/48 M02F1/48A M02F1/48E M02F1/48E2 M02F103/02D M02F103/04 M02F201/00D2 M02F201/461B10F M02F201/461B4 M02F209/00T4 M02F209/04 M02F209/11 M02F301/02F M02F301/04D M02F303/04 M02F303/10 M02F303/16 M02F303/20 M02F303/22

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