

1) Family number: 22947001 (DE19927027C1)

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Title: HEAT PRODUCTION ARRANGEMENT FROM ENVIRONMENTAL ENERGIES, HAVING SOLAR COLLECTOR, HEAT SWAPPER, HEAT PUMP, AND FLUID STORAGES WHICH ARE CONNECTED SELECTIVELY TO ASSURE ENERGETICALLY MOST FAVORABLE ARRANGEMENT

Abstract: The arrangement includes a heat pump (2) connected at its evaporator side with a fluid storage (3) with low temperature level, and on the condenser side with a fluid storage (4) with regulated, high temperature level, at which heat consumers are connected. The fluid storages are mutually connected to thermal overhear convertors. A solar collector (1) can be connected alternatively with respectively one of the fluid storages. A heat convertor (5) can be connected in series with the solar collector, whereby a temperature of the collector is lifted to environmental temperature level. Pumps (9,10) and valves (7, 8, 25) are controlled in such way through a selection control, that the respective energetically most favorable arrangement of the components is activated.

Classifications:

International (IPC 8-9): F24D19/10 F24J2/34

F24J2/40 (Advanced/Invention);

F24D19/00 F24J2/04 F24J2/40 (Core/Invention)

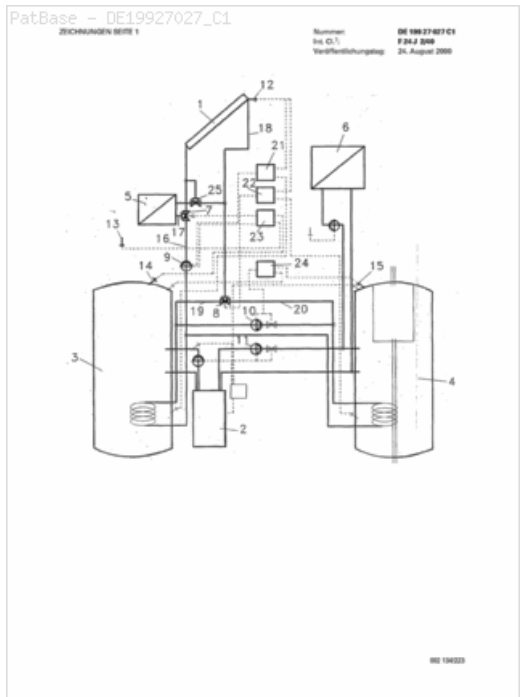
International (IPC 1-7): F24D17/02 F24D19/10 F24J2/40 F24J3/08

CPC: Y02B10/20 Y02B10/70 Y02E10/40 F24D19/1078 F24S50/40

F24S60/30

European: F24D19/10C4V F24J2/34B F24J2/40B Y02B10/20

Y02B10/40 Y02B10/70 Y02E10/40



Family:

Publication number	Publication date	Application number	Application date
DE19927027 C1	20000824	DE19991027027	19990603

Priority:

DE19991027027 19990603

Probable Assignee:

SCHMIDT HENNING

Assignee(s): (std):

SCHMIDT HENNING

Inventor(s): (std):

SCHMIDT HENNING

2) Family number: 12908002 (US6264929B)

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Title: Hair treatment compositions containing fluorinated acids and polymers

Abstract: Compositions for treating hair prepared using fluorinated acids to neutralize polymers with basic groups are described, which contain a complex formed from at least one fluorinated acid and at least one polymer with basic groups or a complex of a salt of a fluorinated acid and a polymer with protonated or quaternized amine groups, and which also contain at least one film-forming, hair-fixing polymer. These compositions deposit a reduced amount of residue on the hair without reducing the hair-fixing performance.

Classifications:

International (IPC 8-9): A61K8/00 A61K8/02 A61K8/30 A61K8/36

A61K8/70 A61K8/73 A61K8/81 A61Q5/06 (Advanced/Invention);

A61K8/00 A61K8/02 A61K8/30 A61K8/72 A61Q5/06 (Core/Invention)

International (IPC 1-7): A61K47/6 A61K7/00 A61K7/06 A61K7/11

A61K7/75 A63B49/04 A63B49/08

CPC: A61K8/361 A61K8/70 A61K8/73 A61K8/731 A61K8/736

A61K8/8147 A61K8/8158 A61K8/8176 A61K8/8182 A61Q5/06

European: A61K7/06C4F A61K8/36C A61K8/70 A61K8/73

A61K8/73C A61K8/73P A61K8/81K2 A61K8/81K6 A61K8/81R2

A61K8/81R4 A61Q5/06

US: 424/400 424/401 424/70.1 424/70.22 424/70.24

PatBase - JP11255626_A2	No. 1 非発明品	No. 2 本発明品
キトサン	0. 80 g	0. 80 g
パーフルオルペンタン酸	—	0. 23 g
85%の濃液	0. 24 g	0. 19 g
PVP/VA共重合物	1. 00 g	1. 00 g
PVP重合物	1. 00 g	1. 00 g
ポリコクタニウム 16	0. 50 g	0. 50 g
セチルトリメチル アンモニウムクロライド	0. 10 g	0. 10 g
84. 7%のエタノール	10. 00 g	10. 00 g
水	86. 36 g	86. 18 g
合計	100. 00 g	100. 00 g

* ポリコクタニウム-16：
メチルビニルイミダゾリウムクロライド/ビニルピロリドン共重合物

Family:

Publication number	Publication date	Application number	Application date
DE19805434 A1	19990812	DE19981005434	19980211
DE19805434 C2	20000203	DE19981005434	19980211
EP0943312 A2	19990922	EP19990100373	19990115
EP0943312 A3	20000308	EP19990100373	19990115
JP11255628 A2	19990921	JP19990003638	19990111
US6264929 BA	20010724	US19990244941	19990204

Priority:

DE19981005434 19980211

Probable Assignee: WELLA AG

Assignee(s): (std): WELLA AG

Assignee(s): WELLA AG 64295 DARMSTADT DE ; WELLA AKTIENGESELLSCHAFT

Inventor(s): (std): CHAMBETTAZ DANIEL ; KARLEN THOMAS ; KARLEN THOMAS DR

Inventor(s): CHAMBETTAZ DANIEL ST URSEN CH

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

3) Family number: 49901005 (US2011272337A)

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Title: DUAL MODE HEMODIALYSIS MACHINE

Abstract: A compact portable dual mode hemodialysis machine system is provided. The system includes a sorbent dialysis module with a sorbent cartridge that purifies a dialysate fluid that flows therethrough, where the sorbent dialysis module returns the purified dialysate fluid from the sorbent cartridge to an inlet of a dialyzer. The system also includes a single-pass dialysis module with an acetate pump, a bicarbonate pump and a mixing chamber, where the acetate and bicarbonate pumps flow acetate and bicarbonate mixtures, respectively, into the mixing chamber. The single-pass dialysis module receives a desired amount of water from a reverse osmosis device, the single-pass dialysis module operated to direct used dialysate from the dialyzer to a drain. The machine system can be operated to replace the sorbent cartridge with the single-pass dialysis module to switch the operation of the dual mode hemodialysis machine system from a sorbent dialysis mode to a single-pass dialysis mode

Classifications:

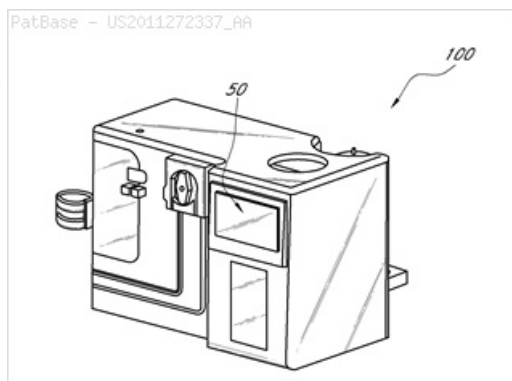
International (IPC 8-9): A61M1/10 A61M1/14

A61M1/34 (Advanced/Invention)

CPC: A61M1/1696 A61M1/1656 A61M1/287 A61M1/3646 A61M1/1668

European: A61M1/16R2 K61M1/16D2 K61M1/28D K61M1/36C6A2

US: 210/195.2 210/195.200P



Family:

Publication number	Publication date	Application number	Application date
US2011272337 AA	20111110	US20110100847	20110504
WO11140268 A2	20111110	WO2011US35252	20110504
WO11140268 A3	20120531	WO2011US35252	20110504

Priority:

US20100331273P 20100504 US20110100847 20110504

Probable Assignee: C TECH BIOMEDICAL INC

Assignee(s): (std): PALMER GRANT ; TECH BIOMEDICAL INC C

Assignee(s): C TECH BIOMEDICAL INC ; KNOBBE MARTENS OLSON AND BEAR LLP

Inventor(s): (std): PALMER GRANT

Agent(s): CHRISTENSEN MICHAEL R

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
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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

4) Family number: 45443013 (US2010150991A)

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Title: COMBINATION WOUND THERAPY

Abstract: A device for providing improved wound healing is described. The device includes a vacuum system for applying a sub-atmospheric pressure to the wound, a gas supply system for applying a gaseous wound healing agent to the wound, and a controller connected with the vacuum system and the gas supply system that controls the applications of the sub-atmospheric pressure and the application of the gaseous wound healing agent to the wound. A method of using the device for improved wound healing is also described.

Classifications:

International (IPC 8-9): A61K33/00 A61K33/04 A61K9/70

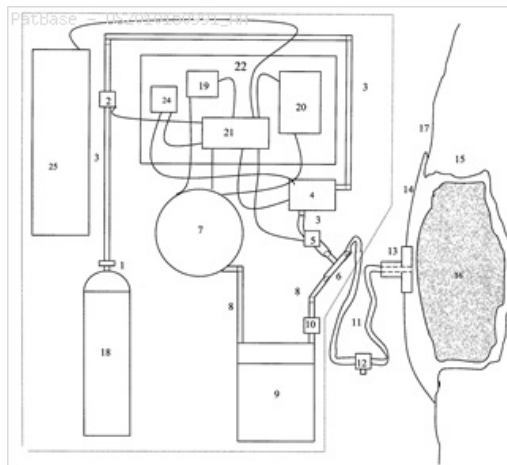
A61M1/00 (Advanced/Invention);

A61K33/00 A61K33/04 A61K9/70 A61M1/00 (Core/Invention)

CPC: A61M35/00 A61M1/0088 A61K31/00 A61M1/0031 A61M1/0084
A61M2205/3344

European: A61K31/00 A61M1/00T2 A61M1/00T6 K61M1/00H2
K61M205/33P5

US: 424/447 424/447P 424/613 424/613S 424/699 424/699S
424/700 424/700S 424/708 424/708S 424/718 424/718S 604/23
604/23S



Family:

Publication number	Publication date	Application number	Application date
US2010150991 AA	20100617	US20090622068	20091119

Priority:

US20080122457P 20081215 US20090622068 20091119

Probable Assignee: BERNSTEIN BRENT H

Assignee(s): (std): BERNSTEIN BRENT H

Inventor(s): (std): BERNSTEIN BRENT H

Agent(s): PANITCH SCHWARZE BELISARIO AND NADEL LLP

5) Family number: 19393024 (GB614627A)

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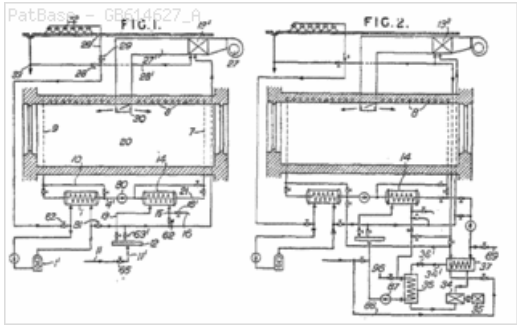
Title: Improvements in or relating to the cooling and ventilation of rooms and buildings

Abstract: [Class 64(ii)] Apparatus for cooling a room or building comprises panel equipment in the upper part of the room with means for passing a cooling medium through it and ventilating equipment for introducing air into the room or building with means for cooling the introduced air. The panel equipment used is that used in cold weather with a heating medium to warm the room. In room 20, Fig. 1, heat exchange panels including elements 8 through which cooling liquid may be circulated are arranged in the ceiling, and air may be introduced by fan 27, ducts 27' which include heat exchanger 13" and ventilating openings 30. Fan 27 may receive fresh air, used air from the room or a mixture of both. Heat carrying medium flows through elements 8, pipes 9, 10, 4<1>, pump 80, heat exchanger 14 and pipes 21 and 7. Heat absorbed in the room is removed in heat exchanger 14 by cold water flowing through main 11, valve 65, pipe 11<1>, distributor 12, pipe 13, exchanger 14, pipe 15 and drain pipe 16. If valves 631 and 28 are open and valves 81, 62, 29 and 82 closed, cold main water also flows through heat exchanger 13<11> to cool the ventilating air, and away through drain pipe 33. If valve 29 is opened and 28 closed, water from heat exchanger 13<11> flows through pipe 29<1> to sprinklers 32 on the roof above room 20, and thence to drain pipe 33. By opening valve 62 and closing valves 16<1> and 63<1> heat exchangers 14 and 13<11> may be arranged in series. A heat exchanger 1 connected to a boiler 1<1> is also provided and may be used with appropriate arrangements of valves for heating heat carrying medium and hence the panels and ventilating air. In Fig. 2 a modification is shown which includes a heat pump having a compressor 34 driven by motor 35, a condenser 37 and an evaporator 36. A volatile medium in closed circuit 34<1> is vaporised in evaporator 36 after passing throttle valve 361 having been compressed in 34 and liquefied in condenser 37. By opening and closing appropriate valves, heat exchanger 14 may then be supplied with water cooled in the evaporator 36 and circulated by means of pump 87..Water from the mains may be supplied by pipe 88 and drain pipe 89 to carry away some heat from condenser 37. If desired the heat exchanger 13<11> may be connected in series or parallel with heat exchanger 14 and supplied with water cooled in evaporator 36. In cold weather condenser 37 may be used to heat a heat carrier medium which flows in a closed circuit including heat exchanger 13<11>. In this case the volatile medium in evaporator 36 is used to extract heat from water which flows into it from the mains and away through drain pipe 96. The heat carrying fluid in elements 8 may also be heated in condenser 37 if desired. In a modification of the invention heat exchanger 14 acts directly on the evaporator in the heat pump system. The cooling medium for the room is cooled in this heat exchanger and flows in series through heat exchanger 13<11> and elements 8. Water condensed from the ventilating-air in heat exchanger 13<11> is removed by pipe 105, Fig. 3 (not shown). Some of the heat carrier flowing through heat exchanger 13<11> may by-pass elements 8 which are accordingly not cooled to the same extent so that deposition of dew on them from the ventilating air is less likely. In a further modification heat exchanger 13<11> may act as condenser for part of the working fluid of the heat pump system and will then strongly cool the ventilating air from which condensed moisture is removed. A further heat exchanger is then arranged in the ventilating shaft to act as condenser for the part of the heat pump working fluid passing through heat exchanger 13". This re-heats the ventilating air to further lower its relative humidity and to make its temperature suitable for introduction into the room. The circuits of heat carrier in the systems are fitted with expansion devices which may be open or closed depending on whether the pressure in the circuit is atmospheric or higher. U.S.A. Specification 2,031,576 is referred to.

Classifications:

International (IPC 8-9): F24F5/00 (Advanced/Invention);

F24F5/00 (Core/Invention)
International (IPC 1-7): F24F3/00
CPC: F24F5/0089
European: F24F5/00R



Family:

Publication number	Publication date	Application number	Application date
GB614627 A	19481220	GB19450006505	19450315

Probable Assignee: SULZER AG
Assignee(s): (std): SULZER AG
Assignee(s): SULZER FRERES SOC ANONYME ; SULZER FRERES SOCIETE ANONYME

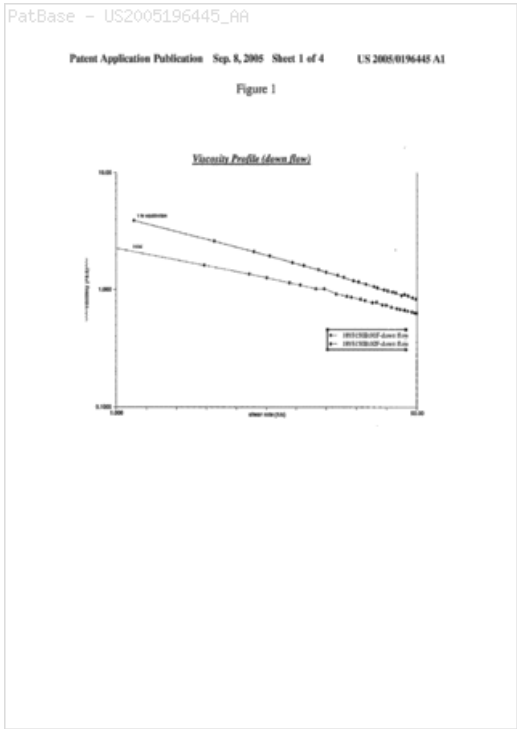
6) Family number: 32220032 (US2005196445A) © PatBase

Title: EDIBLE MICROCRYSTALLINE CELLULOSE AND CARRAGEENAN COATING COMPOSITION

Abstract: The present invention relates to novel, edible, hardenable, prompt release coatings for pharmaceutical, nutraceutical and veterinary solid dosage forms, confectionery, seeds, animal feed, fertilizers, pesticide tablets, and foods, etc., comprising microcrystalline cellulose and a film forming amount of carrageenan, wherein such coatings do not contain a plasticizer, a strengthening polymer or a surfactant.

Classifications:

International (IPC 8-9): A61K31/716 A61K31/737 A61K9/24 A61K9/28 A61K9/30 A61K9/36 (Advanced/Invention); A61K31/716 A61K31/737 A61K9/24 A61K9/28 A61K9/30 (Core/Invention)
International (IPC 1-7): A61K31/716 A61K31/737 A61K9/24 A61K9/30 A61K9/36
CPC: A23P20/105 A61K9/286 A23V2002/00 A61K9/2866
European: A23L1/00P8B6 A61K9/28H6F A61K9/28H6F2 K23V2/00
US: 424/472 424/472P 514/54 514/54S 514/57 514/57S



Family:

Publication number	Publication date	Application number	Application date
US2005196445 AA	20050908	US20050070615	20050302
WO05092296 A1	20051006	WO2005US06612	20050302

Priority:

US20040549785P 20040303 US20050070615 20050302

Probable Assignee: FMC CORP

Assignee(s): (std): AUGELLO MICHAEL ; FMC CORP

Inventor(s): (std): AUGELLO MICHAEL

Agent(s): PATENT ADMINISTRATOR FMC CORP

Designated states: 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 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: SEMICLOSED LOOP AUTOMATIC LEVELING SYSTEM

Abstract: ABSTRACT OF THE DISCLOSURE

In preferred form, a vehicle leveling system compressor operated proportional to vehicle engine speed to direct compressed air into a pressurizable air control chamber of a leveler unit. An exhaust opening from the leveler unit is controlled by an undamped on-off exhaust valve continually operated in response to normal vehicle road movements and changes in loading to effect an on-off ratio for exhaust flow from the control chamber into an air collector tank. The air collector tank serves to collect excess air dumped from the leveler unit to prevent exhaust to atmosphere during dynamic operation. An intake valve and a relief valve on the tank and a desiccant cartridge in the tank cooperate to eliminate water in the system during its operation.

Classifications:

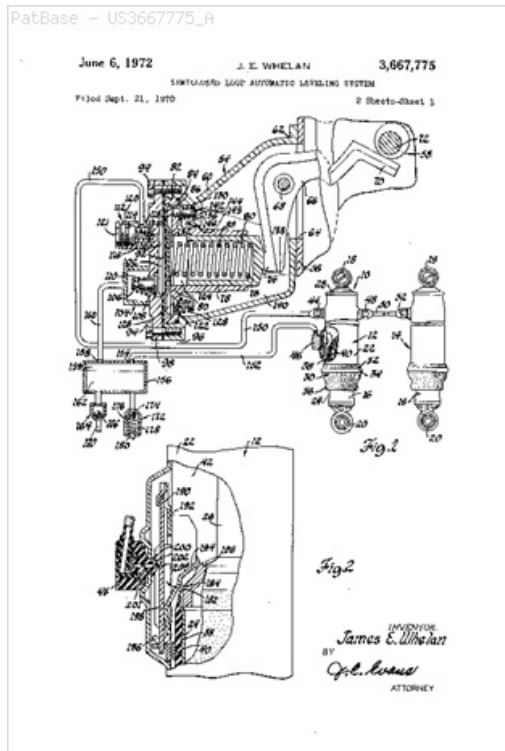
International (IPC 8-9): B60G17/052 (Advanced/Invention); B60G17/04 (Core/Invention)

International (IPC 1-7): B60G17/04 B60R

CPC: B60G17/052 B60G2500/2014

European: B60G17/052 L60G500/2014

US: 267/64.16 280/124.16 280/124F 280/5.514



Family:

Publication number	Publication date	Application number	Application date
CA945571 A1	19740416	CA19710120386	19710812
GB1304124 A	19730124	GB19710040976	19710902
IT940915 A	19730220	IT19710052896	19710915
US3667775 A	19720606	US19700073963	19700921

Priority:

US19700073963 19700921

Probable Assignee: GEN MOTORS CORP

Assignee(s): (std): GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP ; WHELAN JAMES E

Inventor(s): (std): WHELAN JAMES E

Inventor(s): JAMES E WHELAN

Title: SYSTEM AND METHOD FOR AUGMENTING POWER OUTPUT FROM A GAS TURBINE ENGINE

Abstract: The present invention discloses a method and system for augmenting shaft output of stationary gas turbines that can be used in multiple modes of operation. The system comprises a washing unit (25, 27, 28) adapted to inject a spray (26) of atomized liquid so as to impinge on the compressor blades (12) in order to wet said blades (12), thereby obtaining a release of fouling material from said blades (12); and at least one liquid injection unit (21, 23, 24, 29, 210, 212, 214, 215, 216) adapted to inject a spray (22, 211, 213) of atomized liquid into an air stream of said turbine duct (101) or at the gas turbine (10) in order to increase a mass flow of said air flow, wherein the power output from said gas turbine engine can be augmented. With the invention follows also benefits such as fuel savings and improved environmental performance by reduction of emissions.

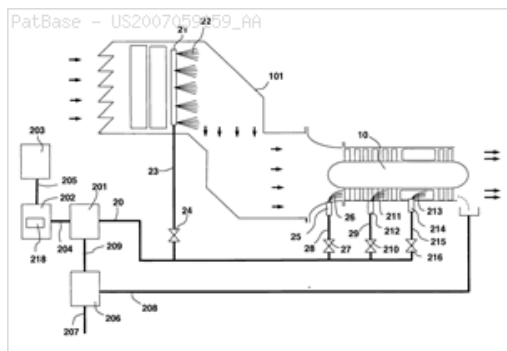
Classifications:

International (IPC 8-9): B08B3/02 B08B9/00 F01D1/00 F01D25/00 F02C3/30 F02C7/00 F02C7/14 F02C7/143 (Advanced/Invention); F01D1/00 F01D25/00 F02C3/20 F02C7/12 (Core/Invention)

CPC: F01D25/002 B08B3/02 B08B9/00 F02C3/305 F02C7/1435

European: B08B3/02 B08B9/00 F01D25/00B F02C3/30B F02C7/143C

US: 134/23 415/117 415/117P 60/39.53 60/775 60/801



Family:

Publication number	Publication date	Application number	Application date
EP1924761 A1	20080528	EP20060784240	20060913
EP1924761 A4	20171129	EP20060784240	20060913
RU2008114368 A	20091020	RU20080114368	20060913
RU2406841 C2	20101220	RU20080114368	20060913
US2007059159 AA	20070315	US20050224306	20050913
US7428818 BB	20080930	US20050224306	20050913
WO07032738 A1	20070322	WO2006SE50327	20060913

Priority:

US20050224306 20050913 WO2006SE50327 20060913

Probable Assignee: GAS TURBINE EFFICIENCY SWEDEN AB

Assignee(s): (std): GAS TURBINE EFFICIENCY AB ; GAZ TURBIN EHFISHENSI AB ; HJERPE CARL JOHAN

Assignee(s): GAS TURBINE EFFICIENCY SWEDEN AB

Inventor(s): (std): HJERPE CARL JOHAN ; JERPE KARL JOKHAN

Inventor(s): JERPE KARL-JOKHAN

Agent(s): HOLMBERG NILS ANDERS PATRIK ET AL; COATS AND BENNETT PLLC; DLA PIPER US LLP

Designated states: 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 HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

9) Family number: 62116053 (MX2014006907A)

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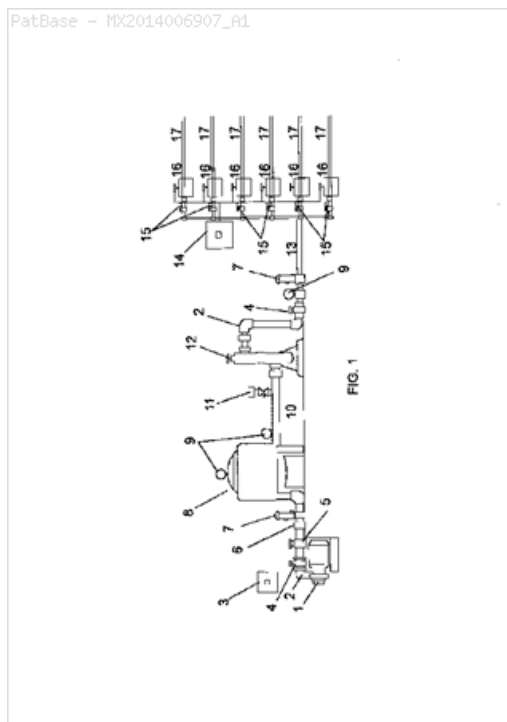
Title: EQUIPMENT FOR APPLYING DRIP IRRIGATION WITH ACCURACY WITHOUT THE AIR STORED INSIDE THE HYDRAULIC SYSTEM.

Abstract: The invention refers to equipment for applying drip irrigation with accuracy without the air stored inside the hydraulic system, which comprises a control section of the irrigation sheet, a remote transmitter of the water level and a receptor that turns the irrigation pump off, the control section having a tube that collects the water applied by drip and measures the volume using a tubular deposit with a plunger, the irrigation system firstly injecting air by means of vents and then water, the irrigation system including a pump, a filtration system, a plurality of monometers for measuring the pressure inside the hydraulic system; the remote level system of the containers comprises a microcontroller, which is interrupted when the desired level of water is reached, the control system for turning the pump on and off including a microcontroller interrupted by a timer and a receptor.

Classifications:

International (IPC 8-9): A01G25/02 A01G25/16 (Advanced/Invention)

CPC: Y02A40/237



Family:

Publication number	Publication date	Application number	Application date
MX2014006907 A1	20151209	MX20140006907	20140609

Priority:

MX20140006907 20140609

Probable Assignee: UNIV AUTONOMA CHAPINGO
Assignee(s): (std): UNIV AUTONOMA CHAPINGO
Assignee(s): UNIVERSIDAD AUTONOMA CHAPINGO
Inventor(s): (std): SCHLAM FEDERICO FELIX HAHN
Inventor(s): FEDERICO FELIX HAHN SCHLAM

10) Family number: 29321059 (US2003104969A)

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Title: Laundry system having unitized dosing

Abstract: Compositions, articles and methods are provided for supplying fabric care benefits to clothing or fabrics in an automated washing machine and by manual washing. The fabric care compositions preferably have less than about 5 percent detergent surfactants, more preferably less than 3 percent, even more preferably less than 1 percent and are most preferably free of detergent surfactants. Similarly, the fabric care compositions preferably have less than about 5 percent fabric softener actives, more preferably less than 3 percent, even more preferably less than 1 percent and are most preferably free of detergent surfactants. The laundry articles can take a variety of forms in a variety of physical states all of which will rapidly dispense a unitized amount of one or more selected fabric care agents to a wash and/or rinse bath solution during the laundering process under a variety of conditions. The invention also pertains to laundry kits that contain a variety of such articles and instructions concerning their use. Likewise, methods for preparing a customized laundry solution to obtain a specific; fabric care benefit selected based on the user's personal preferences and/or the fabric care needs of the fabrics being laundered are also provided. Further, the present invention also concerns methods for assisting a consumer in identifying the unitized articles to be used in preparing a laundry solution that will impart desired fabric care benefits as well as merchandising displays for dispensing the articles, assembling customized laundry kits and instructing the consumer on the selection and use of laundry articles.

Classifications:

International (IPC 8-9): A47F1/08 A47F7/28 A61K7/46 B65D65/46 C11D1/62 C11D1/72 C11D11/00 C11D17/00 C11D17/04 C11D17/06 C11D17/08 C11D3/00 C11D3/37 C11D3/386 C11D3/42 C11D3/48 C11D3/50 C11D7/00 D06M15/03 D06M15/11 D06M15/15 D06M15/333 (Advanced/Invention)

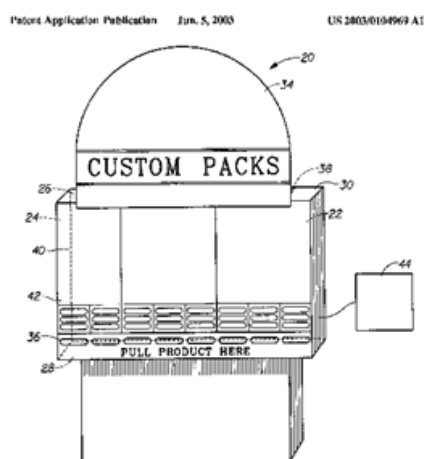
International (IPC 1-7): A47F7/28 C11D1/62 C11D1/72 C11D17/00 C11D17/04 C11D17/06 C11D3/00 C11D3/37 C11D3/386 C11D3/42 C11D3/48 C11D3/50 D06M15/03 D06M15/11 D06M15/15 D06M15/333 G06F17/60

CPC: A47F1/08 C11D3/001 C11D3/0015 C11D3/0021 C11D3/0026 C11D3/0036 C11D3/0052 C11D3/0068 C11D3/373 C11D3/42 C11D3/48 C11D3/50 C11D3/505 C11D11/0017 C11D17/0039 C11D17/041 C11D17/042 C11D17/043 C11D17/046

European: A47F1/08 B65D65/46 C11D11/00B2A C11D17/00D C11D17/04B C11D17/04B2 C11D17/04B2L C11D17/04B4 C11D3/00B10 C11D3/00B14 C11D3/00B3 C11D3/00B3L C11D3/00B4 C11D3/00B5 C11D3/00B7 C11D3/37B12 C11D3/42 C11D3/48 C11D3/50 C11D3/50B2

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PatBase - US2003104969_AA

**Family:**

Publication number	Publication date	Application number	Application date
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AU200163063 A1	20011120	AU20010063063	20010510
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US2003104969 AA	20030605	US20010838867	20010420
US2005026793 AA	20050203	US20040925749	20040825
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US2007111918 AA	20070517	US20060396521	20060403
US2008009432 AA	20080110	US20070823030	20070626
US2009062173 AA	20090305	US20080265080	20081105

US2010035789 AA	20100211	US20090508596	20090724
US2010115708 AA	20100513	US20090613611	20091106
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US7091171 BB	20060815	US20050121876	20050504
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US7494965 BB	20090224	US20070823030	20070626
US7534758 BB	20090519	US20080265080	20081105
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WO0185888 A2	20011115	WO2001US15275	20010510
WO0185888 A3	20020711	WO2001US15275	20010510

Priority:

US20000203472P 20000511	US20010838867 20010420	CA20012405845 20010510
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Probable Assignee: PROCTER AND GAMBLE CO

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Inventor(s): WELCH ROBERT ; WUNDRIARI HOFFMAN ; YORK DAVID ; WAHL ERROL HAFFMAN ; WAHL ERROL ; RUTH ANNE MURPHY ; ROBERT GARY WELCH ; SIMON HOWE ; STEVEN LOUIS DIERSING ; TIMOTHY SCHROEDER ; TOAN TRINH ; RIDYARD MARK ; LOIS SARA GALLON ; MALCOLM MCCLAREN DODD ; MARK WILLIAM RIDYARD ; MURPHY RUTH ; LEGAL REPRESENTATIVE BETTY JEAN ; LITTIG JANET ; HENSLEY CHARLES ; JANET SUE LITTIG ; JITEN ODHAVJI DIHORA ; JOHAN ESHUIS ; HENSLEY LEGAL REPRESENTATIVE BETTY J ; HENSLEY LEGAL REPRESENTATIVE BETTY JEAN ; GEORGE ENDEL DECKNER ; GEORGIOU CHRISTOS JOHN ; HENSLEY ; HENSLEY BETTY ; GALLON LOIS ; DODD MALCOLM ; EDWARD SAYERS ; ELLEN SCHMIDT BAKER ; ERROL HOFFMAN WAHL ; DUFTON DANIEL ; DIHORA JITEN ; ANGELINA PENA ROMERO ; BAKER ELLEN ; DENNEAU MONTY MONTAGUE ; DIERSING STEVEN ; CASWELL DEBRA ; CHARLES ALBERT HENSLEY ; CHRISTOPHE LAUDAMIEL PELLET ; DANIEL JAMES DUFTON ; DAVID WILLIAM YORK ; DEBRA SUE CASEWELL ; DECKNER GEORGE

Agent(s): KIRBY EADES GALE BAKER; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION; THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION WEST BLDG; THE PROCTER AND GAMBLE COMPANY,GLOBAL LEGAL DEPARTMENT - IP; PROCTER AND GAMBLE CO GLOBAL LEGAL DEPARTMENT IP; STEVEN W; DAVID V; KIM W; MARK A; KIM WILLIAM; SIA RONALD TERK; UPITE DAVID V; CHARLES MARK A; RONALD TERK; SIA RONALD T; RONALD T

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 CO 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 LI 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 UZ VN YU ZA ZW

11) Family number: 28322066 (US2002148584A)

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Title: WET CREPE THROUGHDRY PROCESS FOR MAKING ABSORBENT SHEET AND NOVEL FIBROUS PRODUCTS

Abstract: An improved process for making sheet from a fibrous furnish includes: depositing the furnish on a foraminous support; compactively dewatering the furnish to form a nascent web; drying the web on a heated cylinder; creping the web therefrom and throughdrying the web to a finished product. The microstructure of the web is controlled so as to facilitate throughdrying. The product exhibits a characteristic throughdrying coefficient of from 4 to 10 when the airflow through the sheet is characterized by a Reynolds Number of less than about 1. The novel products of the invention are characterized by wet springback ratio, hydraulic diameter and an internal bond strength parameter.

Classifications:

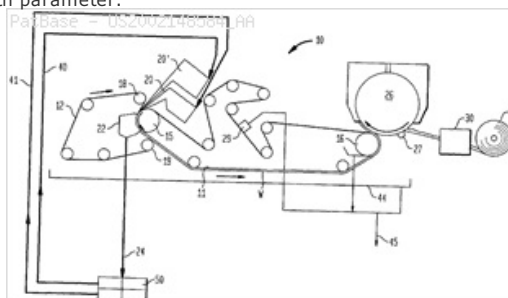
International (IPC 8-9): A47K10/16 B31F1/12 B31F1/14 B31F1/16 D21F11/14 D21F3/02 D21F5/02 D21F5/06 D21F5/18 D21F9/00 D21G9/00 D21H11/14 D21H15/00 D21H25/00 D21H27/14 D21H27/40 (Advanced/Invention); D21H27/14 (Advanced/Non-invention)

International (IPC 1-7): D21F5/00 D21F5/02 D21F5/08 D21F5/18 D21H25/10 D21H27/00

CPC: Y10T428/24455 D21F11/14 D21F3/0218 D21F5/181 D21F5/182 D21F11/145 D21G3/04 D21G9/0063 D21H25/005

European: D21F11/14 D21F11/14B D21F3/02B2 D21F5/18A D21F5/18B D21G3/04 D21G9/00C D21H25/00B N21H25/00B

US: 162/100 162/100S 162/109 162/111 162/111S 162/115 162/141 162/141S 162/146 162/146S 162/147 162/147S 162/204 162/207 162/207S 428/153 428/153S



Family:

Publication number	Publication date	Application number	Application date
CA2367616 AA	20020712	CA20022367616	20020111
CA2367616 C	20101221	CA20022367616	20020111
CA2713301 AA	20020712	CA20022713301	20020111
CA2713301 C	20150922	CA20022713301	20020111
US2002148584 AA	20021017	US20020042513	20020109
US2004226673 AA	20041118	US20040806792	20040323
US2007107863 AA	20070517	US20060548014	20061010
US6752907 BB	20040622	US20020042513	20020109
US7160418 BB	20070109	US20040806792	20040323
US7691228 BB	20100406	US20060548014	20061010

Priority:

US20010261879P 20010112 US20020042513 20020109 CA20022367616 20020111
US20040806792 20040323 US20060548014 20061010 CA20102367616 20100928

Probable Assignee: GPCP IP HOLDINGS LLC

Assignee(s): (std): GEORGIA PACIFIC CONSUMER PROD ; GEORGIA PACIFIC CORP ; WENDT GREG A ; SUPER GUY H ; WORRY GARY L ; WIELEN MICHAEL J VANDER

Assignee(s): GEORGIA PACIFIC CONSUMER PRODUCTS LLC ; GEORGIA PACIFIC CONSUMER PRODUCTS LP ; MCDOWELL JEFFREY C ; MCCULLOUGH STEPHEN J ; VANDER WIELEN MICHAEL J ; MARINACK ROBERT J ; CITICORP NORTH AMERICA INC ; COLOR BOX LLC DELAWARE LIABILITY CO LTD ; DIXIE CONSUMER PRODUCTS LLC DELAWARE LIABILITY CO LTD ; EDWARDS STEVEN L ; GEORGIA PACIFIC CHEMICALS LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CONSUMER OPERATIONS LLC ; GEORGIA PACIFIC CONSUMER PRODUCTS LP DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CORRUGATED LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC GYPSUM LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC LLC DELAWARE PARTNERSHIP LTD ; GEORGIA PACIFIC WOOD PRODUCTS LLC DELAWARE LIABILITY CO LTD ; GP CELLULOSE GMBH ZUG SWITZERLAND LIABILITY CO LTD ; GPCP IP HOLDINGS LLC

Inventor(s): (std): EDWARDS STEVEN L ; MARINACK ROBERT J ; MCCULLOUGH STEPHEN J ; MCDOWELL JEFFREY C ; SUPER GUY H ; VANDER WIELEN MICHAEL J ; WENDT GREG A ; WIELEN MICHAEL J VANDER ; WORRY GARY L

Inventor(s): EDWARDS STEVEN ; WORRY GARY ; WENDT GREG ; VANDER WIELEN MICHAEL ; SUPER GUY ; MCDOWELL JEFFREY ; MCCULLOUGH STEPHEN ; MARINACK ROBERT

Agent(s): KIRBY EADES GALE BAKER; PATENT GROUP GA030 43 GEORGIA PACIFIC LLC; MICHAEL W

12) Family number: 12223074 (US5462660A)

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Title: High performance liquid chromatography injection system for the simultaneous concentration and analysis of trace components

Abstract: A high pressure liquid chromatography injection system with two independently controlled valves and a pump is provided which permits the simultaneous and independent concentration and analysis of trace components using two different solvent systems.

Classifications:

International (IPC 8-9): B01D15/08 G01N30/08 (Advanced/Invention); G01N30/02 G01N30/46 (Advanced/Non-invention)

International (IPC 1-7): B01D15/08

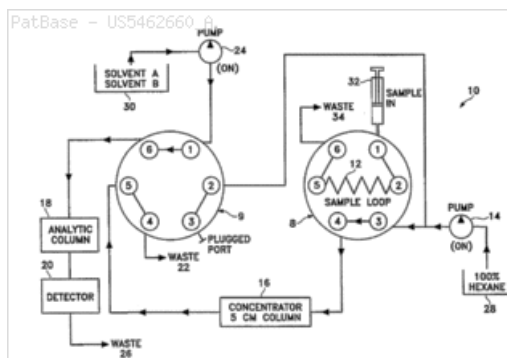
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G01N2030/027 G01N2030/085

European: B01D15/08 B01D15/14 B01D15/20E G01N30/08

S01N30/02A4 S01N30/08A S01N30/46A2

US: 210/198.2 210/659 422/70

**Family:**

Publication number	Publication date	Application number	Application date
US5462660 A	19951031	US19940243951	19940422

Priority:

US19940243951 19940422

Probable Assignee: NORTH CAROLINA STATE UNIV

Assignee(s): (std): US ARMY

Assignee(s): NORTH CAROLINA STATE UNIV ; SECRETARY OF AGRICULTURE AS US GOV ; SECRETARY OF AGRICULTURE US ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF AGRICULTURE

Inventor(s): (std): SINGLETON JOHN A ; STIKELEATHER LARRY F

13) Family number: 47634079 (US2011021588A)

© PatBase

Title: SUBLINGUAL DEXMEDITOMIDINE COMPOSITIONS AND METHODS OF USE THEREOF

Abstract: Analgesic sublingual formulations of dexmedetomidine and methods of use thereof are provided for use in the prevention, treatment and management of pain and other conditions.

Classifications:

International (IPC 8-9): A61K A61K31/415 A61K31/4164
A61K31/4174 A61K45/00 A61K47/32 A61K9/00 A61K9/08
A61K9/107 A61K9/12 A61K9/14 A61K9/20 A61M11/00 A61M31/00
A61P A61P17/02 A61P21/04 A61P25/00 A61P25/04 A61P25/20
A61P29/00 A61P3/00 A61P35/00 A61P43/00 (Advanced/Invention);
A61K A61P (Subclass/Invention)

CPC: A61K9/006 A61K31/4174 A61K47/32 A61K31/4164
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A61M2210/0625

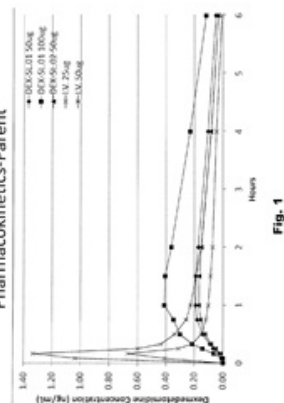
European: A61K31/4174 A61K9/00M18D

US: 514/396

PatBase - US2011021588_AA

Patent Application Publication Jan. 27, 2011 Sheet 1 of 20 US 2011/0021588 A1

Study REC-09-001
Pharmacokinetics-Parent

**Family:**

Publication number	Publication date	Application number	Application date
AU2010248776 AA	20101118	AU20100248776	20100517
AU2010248776 BB	20130606	AU20100248776	20100517
BRPI1010567 A2	20160315	BR2010PI10567	20100517
CA2762107 AA	20101118	CA20102762107	20100517
CL2011002858 A1	20120622	CL20110002858	20111114
CN102639131 A	20120815	CN201080021182	20100517
CN106511273 A	20170322	CN201610753813	20100517
CO6460767 A2	20120615	CO20110155150	20111115
CR20110596 A	20120326	CR20110000596	20111114
DOP2011000354 A	20120715	DO20110000354	20111114
ECSP11011459 A	20120131	EC2011SP11459	20111114
EP2429521 A2	20120321	EP20100775671	20100517
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EP2429521 B1	20171018	EP20100775671	20100517
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HK1168302 A1	20121228	HK20120109245	20120920
HK1168302 B	20180504	HK20120109245	20120920
HN2011003011 A	20141201	HN20110003011	20111114
IL216159 A0	20120131	IL20100216159	20100517
IL216159 A1	20151029	IL20100216159	20100517
IN09629DN2011 A	20130125	IN2011DN09629	20111208
JP2012526854 T2	20121101	JP20120511068T	20100517
JP2016029055 A2	20160303	JP20150179975	20150911
JP6172938 B2	20170802	JP20120511068T	20100517
KR101859486 B1	20180628	KR20117027466	20100517
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MX2011011950 A1	20120221	MX20110011950	20100517
NZ596976 A	20140530	NZ20100596976	20100517
PE07132012 A1	20120708	PE20110001958	20100517
RU2011151059 A	20130620	RU20110151059	20100517
RU2572692 C2	20160120	RU20110151059	20100517
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US2011021588 AA	20110127	US20100781628	20100517
WO10132882 A2	20101118	WO2010US35136	20100517
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WO10132882 A8	20111229	WO2010US35136	20100517
ZA201108359 A	20120725	ZA20110008359	20111114

Priority:

US20090178730P 20090515	CN201080021182 20100517	EP20100775671 20100517
US20100781628 20100517	JP20120511068T 20100517	WO2010US35136 20100517
JP20150179975 20150911		

Probable Assignee: RECRO PHARMA INC

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Inventor(s): ANNE ; SHARR CHRISTOPHER TOHOMAS ; MEHK REHNDALL DZHEROM ; SHEHRR KRISTOFER TOMAS ; KHEHNVUD DZHERAL DIN EHNN ; KOULENG ML DZHON DZHOZEZ ; SCHRISTOPHER THOMAS SHARR KOLENG JR ; KOULENG ML ; MACK RANDALL JEROME SHARR CHRISTOPHER THOMAS KOLENG JR JOHN JOSEPH ; GERALDINE ANNE HEWOOD ; CHRISTOPHER TOHOMAS SHARR ; JR JOHN JOSEPH KOLENG ; CHRISTOPHER THOMAS SHARR

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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

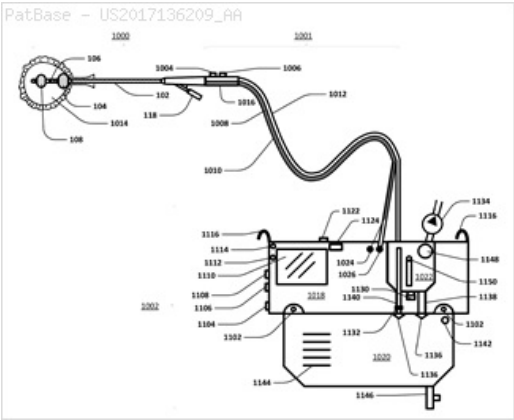
14) Family number: 65691081 (US2017136209A) © PatBase

Title: SYSTEMS, DEVICES AND METHODS FOR DRAINING AND ANALYZING BODILY FLUIDS

Abstract: Systems, devices and methods for draining and analyzing bodily fluids are disclosed in which a drainage assembly is configured to prevent negative pressure build-up. The drainage assembly generally includes a catheter which may include a drainage lumen, a reservoir, a venting mechanism in fluid communication with the drainage lumen and a positive pressure lumen, and a controller. The venting mechanism may further include a valve which is configured to maintain a closed position, as well as a vent in fluid communication with the valve, where the venting mechanism is configured to inhibit wetting of the vent from fluid within the drainage lumen

Classifications:

International (IPC 8-9): A61B5/00 A61F5/44 A61F5/441 A61M1/00 A61M25/00 A61M25/10 (Advanced/Invention)
CPC: A61M25/0017 A61M1/008 A61M1/0033 A61M1/0035 A61M1/0001 A61B5/0084 A61M1/0025 A61M1/0031 A61M1/006 A61M2202/0496 A61M2210/1021 A61M2210/1085 A61M2230/005 A61B5/02055 A61B5/036 A61B5/0816 A61B5/205 A61B5/208 A61B5/6853 A61B2562/0247 A61M27/00 A61M27/002 A61M27/008



Family:

Publication number	Publication date	Application number	Application date
AU2016357231 AA	20180621	AU20160357231	20161103
CA3005447 AA	20180515	CA20163005447	20161103
EP3377132 A1	20180926	EP20160866847	20161103
JP2018538116 T2	20181227	JP20180544763T	20161103
US2017136209 AA	20170518	US20160277957	20160927
WO17087182 A1	20170526	WO2016US60365	20161103

Priority:

US20150256257P 20151117	US20150270022P 20151220	US20150270623P 20151222
US20160275348P 20160106	US20160290878P 20160203	US20160307988P 20160314
US20160317746P 20160404	US20160372731P 20160809	US20160277957 20160927
WO2016US60365 20161103		

Probable Assignee: POTRERO MEDICAL INC

Assignee(s): (std): POTRERO MEDICAL INC

Assignee(s): SOKOLOV DIMITRI ; WILLIAMS MARTIN ; VENKATESWARA RAO KONDAPAVULUR ; ARNEY MICHELLE ; BOYD STEPHEN ; BURNETT DANIEL R ; KEENAN RICH

Inventor(s): (std): ARNEY MICHELLE ; BOYD STEPHEN ; BURNETT DANIEL R ; KEENAN RICH ; SOKOLOV DIMITRI ; VENKATESWARA RAO KONDAPAVULUR ; WILLIAMS MARTIN

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP; THOMA MICHAEL; HAN JOHNEY U ET AL

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 DJ 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 KW 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

15) Family number: 2071087 (US4557673A) © PatBase

Title: IMPLANTABLE PUMP

Abstract: A chamber structure in a blood pump or the like is described. The structure includes a deformable sac having an annular side wall which is held in a rigid condition, and a pair of opposed circular walls, each joined to the annular side wall through a flexible annular wall portion. A circular pusher plate acting against each circular wall has an initial deflection position at which the associated flexible wall portion in the sac takes the form of a circumferentially uniform roll having an outwardly convex, bulged cross sectional curvature. The rolls in the sac maintain their circumferentially uniform, bulge-like character as the pusher plates are moved toward inwardly moved positions.

Classifications:**International (IPC 8-9):** A61M1/00 A61M1/10 F04B43/00

F04B43/04 (Advanced/Invention);

A61M1/00 A61M1/10 F04B43/00 (Advanced/Non-invention);

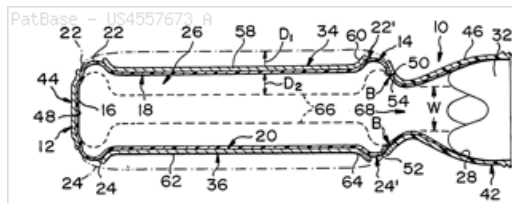
A61M1/00 A61M1/10 F04B43/00 F04B43/02 (Core/Invention);

A61M1/10 (Core/Non-invention);

F04B (Subclass/Invention)

International (IPC 1-7): A61F2/22 A61M1/00 A61M1/03 A61M1/10 F01B19/00 F04B21/00 F04B43/00 F04B43/04 F16J3/00 H02K33/14**CPC:** Y10S128/03 A61M1/1048 F04B43/0063 A61M1/1053

A61M1/1037 A61M1/1049 A61M1/1096 A61M1/122 A61M1/1098 A61M1/1055

European: A61M1/10E4B F04B43/00D8B K61M1/10E4A K61M1/10E4B1B**US:** 128/10 128/1D 128/DIG.3 310/22 310/33 417/412 417/63 600/16 623/3 623/3.17 92/92**Family:**

Publication number	Publication date	Application number	Application date
AT35024 E	19880615	AT19830900226T	19831130
AU198423472 A1	19840618	AU19840023472	19831130
AU560881 B2	19870416	AU19840023472	19831130
BRPI8307632 A	19841127	BR1983PI07632	19831130
CA1222901 A1	19870616	CA19830442516	19831202
CA1222902 A1	19870616	CA19830442517	19831202
DE3376998 D1	19880714	DE19833376998	19831130
DK377684 A	19840803	DK19840003776	19840803
DK377684 A0	19840803	DK19840003776	19840803
EP0128197 A1	19841219	EP19840900226	19831130
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JP60500066 T2	19850117	JP19840500351T	19831130
JP6094866 B4	19941124	JP19830500351T	19831130
JP6094866 B4	19941124	JP19840500351T	19831130
US4557673 A	19851210	US19840662254	19841017
US4565497 A	19860121	US19840680731	19841211
WO8402164 A1	19840607	WO1983US01891	19831130

Priority:

US19820446454 19821203

US19820446455 19821203

EP19840900226 19831130

WO1983US01891 19831130

CA19830442516 19831202

CA19830442517 19831202

US19840662254 19841017

US19840680731 19841211

Probable Assignee: WORLD HEART CORP**Assignee(s):** (std): NOVACOR MEDICAL CORP**Assignee(s):** WORLD HEART CORP ; MILLER PHILLIP J ; BAXTER INT ; BAXTER INT INC ; BAXTER INT INC A CORP OF DE ; CHEN HERBERT ; CONLEY MICHAEL G ; EDWARDS LIFESCIENCES CORP ; JASSAWALLA JAL S**Inventor(s):** (std): CHEN HERBERT ; CONLEY MICHAEL G ; GEORGE CONLEY MICHAEL ; HERBERT CHEN ; JASSAWALLA JAL S ; JAY MILLER PHILLIP ; MILLER P J JASSAWALLA J S CHEN ; SOHRAB JASSAWALLA JAL ; MILLER PHILLIP JAY ; JASSAWALLA JAL SOHRAB ; CONLEY MICHAEL GEORGE ; MILLER PHILLIP ; JASSAWALLA JAL ; CONLEY MICHAEL ; MILLER PHILLIP J**Inventor(s):** MILLER PJ JASSAWALLA JS CHEN H CONLEY MG ; PHILLIP JAY MILLER ; MILLER P J JASSAWALLA J S CHEN H CONLEY M G ; MICHAEL GEORGE CONLEY ; JAL SOHRAB JASSAWALLA**Agent(s):** SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MACRAE AND CO**Designated states:** AT AU BE BR CH DE DK FR GB JP LI LU NL SE**16) Family number: 35720104 (US2007200267A)**

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Title: PRESSURIZED DIP COATING SYSTEM**Abstract:** The present disclosure provides a method and apparatus for coating a medical device.**Classifications:****International (IPC 8-9):** A61B17/04 A61L17/10 B05B15/12 B05D1/18

B05D3/00 B05D3/02 B05D3/04 B29C39/10 B29C39/42 C23C14/00

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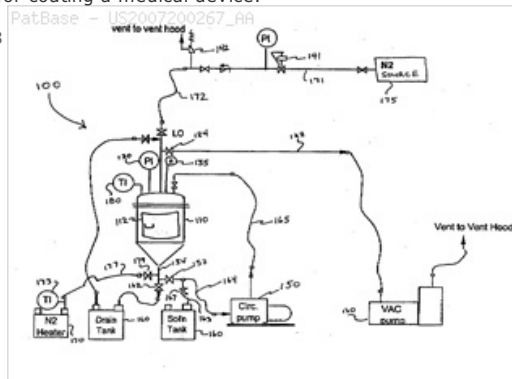
A61L17/00 B05B15/12 B05D1/18 B05D3/00 B05D3/04 B29C39/10

B29C39/42 C23C14/00 D06B5/00 (Core/Invention)

CPC: B05D1/18 B05D3/04B6 B05D3/0493**European:** B05D1/18 B05D3/04T B05D3/04V L05D3/04V**US:** 118/40 118/50 118/500 118/50S 118/602 118/602S 264/102

264/102P 264/279.1 264/279.100S 427/2.1 427/2.24 427/2.3

427/2.31 427/430.1 427/434.5 606/230

**Family:**

Publication number	Publication date	Application number	Application date
CA2577760 AA	20070827	CA20072577760	20070209
DE602007029582 D1	20130606	DE200760029582T	20070214
EP1825928 A1	20070829	EP20070003136	20070214
EP1825928 B1	20130410	EP20070003136	20070214
EP2266708 A2	20101229	EP20100009223	20070214

GB2036278 B2	19821201	GB19790034291	19791003
GR66058 B	19810114	GR19770054674	19771031
GR66058 B	19810114	GR19770154674	19771031
IT1090197 A	19850618	IT19770051632	19771028
JP1033748 B4	19890714	JP19790094154	19790724
JP1324780 C3	19860627	JP19770131388	19771101
JP1550142 C3	19900323	JP19790094154	19790724
JP1669002 C3	19920529	JP19790146995	19791113
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KR19830001565 A	19830517	KR19790003949	19791112
KR840000358 B1	19840326	KR19790003949	19791112
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NL7712028 A	19780503	NL19770012028	19771101
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PH14941 A	19820202	PH19770020337	19771018
PH18710 A	19850905	PH19790023220	19791026
PT67199 A	19771101	PT19770067199	19771027
SE7711944 A	19780501	SE19770011944	19771024
SE7711944 L	19780501	SE19770011944	19771024
US4100759 A	19780718	US19760737439	19761101
US4127008 A	19781128	US19760737440	19761101
US4186562 A	19800205	US19780927455	19780724
US4211085 A	19800708	US19780924685	19780714
US4224801 A	19800930	US19780959891	19781113
ZA7705987 A	19780530	ZA19770005987	19771006

Priority:

US19760737439 19761101 US19760737440 19761101 US19780924685 19780714
US19780927455 19780724 US19780959891 19781113 CA19790335848 19790918

Probable Assignee: LIQUID CARBONIC CORP CHICAGO ILL US

Assignee(s): (std): LEWIS TYRE ; LEWIS TYREE JR ; LEWIS TYREE ; TYREE JUN ; RUISU TEIRII JIYUNIA ; RUISU TEIRII JIYUNIAA ; TYREE JR LEWIS ; LEWIS TYREE JR TE OAK BROOK ILLINOIS VER ST V AM ; TYREE L JR ; TYREE L ; TYREE LEWIS ; TYREE LEWIS JR

Assignee(s): LIQUID CARBONIC CORP ; TYREE JUN LEWIS ; LIQUID CARBONIC CORP CHICAGO ILL US ; CBI RESEARCH A CORP OF DE CORP ; CBI RESEARCH CORP

Inventor(s): (std): L TYREE ; LEWIS TYREE ; LEWIS TYREE JR ; RUISU TEIRII JIYUNIAA ; RUISU TEIRII JUNIAA ; RUISU TERII JIYUNIAA ; RUISU TERII JUNIAA ; SOK ; TYREE JR LEWIS ; TYREE L ; TYREE L JR ; TYREE LEWIS ; TYREE LEWIS JR ; TYREE JUN LEWIS

Inventor(s): TYREE JUN LEWIS OAK BROOK ILL US ; JUN ; TYREE JUN

Agent(s): SF; SPRUSON AND FERGUSON; MACRAE AND CO

18) Family number: 12894119 (US5586050A)

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Title: REMOTELY CONTROLLABLE LNG FIELD STATION MANAGEMENT SYSTEM AND METHOD

Abstract: A remotely controllable apparatus, system and method for monitoring, inventory, controlling and reporting on the filling, refilling and dispensing of Liquefied Natural Gas (LNG) at portable temporary or semi-permanent field-located storage and dispensing stations, including a portable storage tank, and an associated portable pump and control skid, which skid includes: an on-site microprocessor control system having: security features; pump, fill and dispense connections; an LNG leak detection system; a communications link (typically an RF cellular phone system) to a host computer; a dispensing and refilling sales authorization and initiation system (typically a card reader of the credit, access or proximity card types); and a remotely located host computer having a full suite of features including: inventory, monitoring, security and access control; operational control; financial and transaction record keeping and report generation; and emergency warning and shut-down. The field control unit control functions are performed by the on-site microprocessor which receives input from a plurality of natural gas leak detection sensors, and provides complete on site security screening, data acquisition, transaction recording and control capability, including warning via lights, horn or recorded or synthesized voice, and shut-off or shut-down. The field control unit monitors and controls prescribed user vehicle and storage tank filling procedures, and provides communications to a remote central monitoring site having a host computer master controller, via cellular phone.

Classifications:

International (IPC 8-9): B67D7/08 G01D4/14 (Advanced/Invention);
B67D7/08 G01D4/00 (Core/Invention)

International (IPC 1-7): F04B15/08 G01B21/00 G01D4/14
G06F17/40 G08B29/06

CPC: Y10S417/901 Y04S20/36 B67D7/08 G01D4/14 G06Q50/06

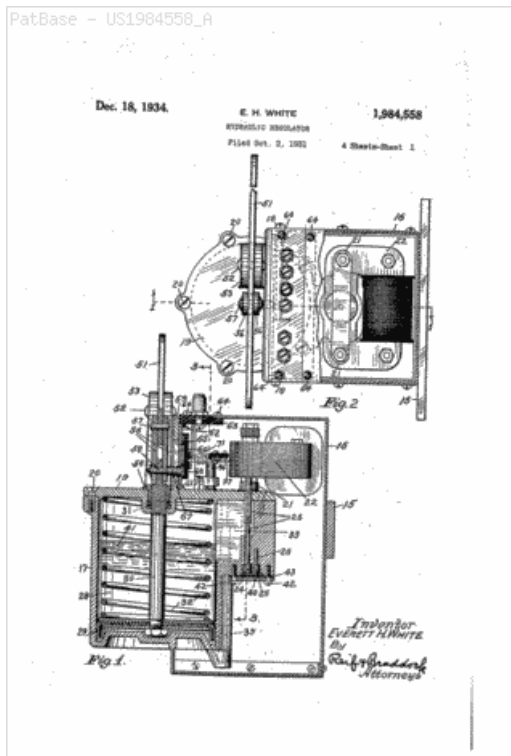
European: B67D7/08 G01D4/14 G06F17/60B6 G06Q50/06

US: 340/5.92 340/825.31 364/465 364/509 364/510 417/901
700/283 702/51 705/413 73/40 73/40.50R 73/40.5R

Publication number	Publication date	Application number	Application date
US5586050 A	19961217	US19940297337	19940810
WO9605561 A1	19960222	WO1995US10190	19950810

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

US: 123/74A 236/74R 60/404 60/406 60/432 60/463

**Family:**

Publication number	Publication date	Application number	Application date
US1984558 A	19341218	US19310566520	19311002

Priority:

US19310566520 19311002

Probable Assignee:

WHITE EVERETT H

Assignee(s): (std):

WHITE EVERETT H

Inventor(s): (std):

WHITE EVERETT H

20) Family number: 42996141 (ZA200711194A)

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Title: COMPOSITIONS CONTAINING FLUORINE SUBSTITUTED OLEFINS**Abstract:** Various uses of fluoroalkenes, including tetrafluoropropenes, particularly (HFO-1234) in a variety of applications, including as blowing agents are disclosed.**Classifications:**

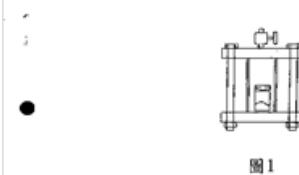
International (IPC 8-9): B01D11/00 C07C21/18 C08J9/14 C09K5/04 A61K8/04 A61K9/00 A61Q15/00 A61Q19/00 A61Q5/06 B01D11/02 B01D11/04 B01J37/00 B29C73/16 B60R21/26 B60S5/04 C07C19/08 C07C21/00 C07C21/06 C07C21/14 C07D471/00 C09K C09K3/30 C11B1/10 C11B9/02 (Advanced/Invention); C09K5/04 F25B1/00 (Advanced/Non-invention); B01J37/00 C07D471/00 C08J9/00 C09K5/00 (Core/Invention); F25B1/00 (Core/Non-invention); B01J C07D C09K (Subclass/Invention)

CPC: B01J37/031 C10M2203/065 C10M2203/1006 C10M2205/0285 C10M2207/2805 C10M2209/1033 C10N2220/302 C10N2230/08 C10N2230/12 C10N2240/30 C08J2203/162 C08J2203/182 C08J2361/06 C08J2375/04 C08J9/144 C10M171/008 Y02P20/123 Y02P20/124 Y02P20/544

European: C09K5/04B4B C10M171/00R L01J37/03B M10M203/06B M10M203/10B M10M205/028B M10M207/28B M10M209/103B M10N220/302 M10N230/08 M10N230/12 M10N240/30

TWI482748_B

十一、圖式：

**Family:**

Publication number	Publication date	Application number	Application date
AU2006261816 AA	20070104	AU20060261816	20060626

AU2006261816 BB	20110519	AU20060261816	20060626
AU2011213796 AA	20110922	AU20110213796	20110819
AU2011213796 BB	20120927	AU20110213796	20110819
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CA2612986 AA	20071220	CA20062612986	20060626
CN101248153 A	20080820	CN200680031112	20060626
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CN101283071 A	20081008	CN200680031093	20060626
CN101283071 B	20130724	CN200680031093	20060626
EP1893714 A2	20080305	EP20060785612	20060626
EP1893714 B1	20141105	EP20060785612	20060626
EP2327593 A2	20110601	EP20100014851	20060626
EP2327593 A3	20150722	EP20100014851	20060626
EP2327754 A2	20110601	EP20100014853	20060626
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EP2327755 A3	20151021	EP20100014852	20060626
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KR20080025748 A	20080321	KR20087001971	20060626
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TW200706522 A	20070216	TW20060122867	20060623
TWI482748 B	20150501	TW20060122867	20060623
WO07002625 A2	20070104	WO2006US24886	20060626
WO07002625 A3	20070518	WO2006US24886	20060626
ZA200711194 A	20090429	ZA20070011194	20060626

Priority:

US20050693853P	20050624	US20060784731P	20060321	AU20060261816	20060626
EP20060785612	20060626	WO2006US24886	20060626	WO2006US25060	20060626
US20060475605	20060626	AU20110213796	20110819	AU20120265607	20121219
AU20130203977	20130411	AU20130203962	20130411	AU20130203989	20130411

Probable Assignee: HONEYWELL INT INC

Assignee(s): (std): HONEYWELL INERNAT INC ; HONEYWELL INT INC ; KHONEJVELL INTERNEHSHNL INK ; PHAM HANG T ; WILSON DAVID P ; METCALF DAVID A ; THOMAS RAYMOND H ; SPATZ MARK W ; SINGH RAJIV R

Assignee(s): HONEYWELL INTERNATIONAL INC ; HONEYWELL INERNATIONAL INC

Inventor(s): (std): SINGH RAJIV R ; SINGH RAJIV S ; SINGKH RADZHIV R ; SPATZ MARK W ; SPEJTS MARK V ; THOMAS RAYMOND H ; TOMAS REJMOND KH ; UILSON DEHVID P ; WILSON DAVID P ; WILLIAMS DAVID J ; BOWMAN JAMES M ; FEHM KHANG T ; METCALF DAVID A ; METKEJLF DEHVID A ; PHAM HANG T

Inventor(s): RAJIV R SINGH ; RAYMOND H THOMAS ; HANG T PHAM ; MARK W SPATZ ; DAVID A METCALF ; DAVID P WILSON ; METCALF DAVID A HONEYWELL INT INC

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; BUCKLEY GUY JULIAN; CROOKS ELIZABETH CAROLINE; HUCKER CHARLOTTE JANE; REINHOLD COHN AND PARTNERS; ONO SHINJIRO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO

Designated states: 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 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 MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

21) Family number: 33277154 (US2006239928A)

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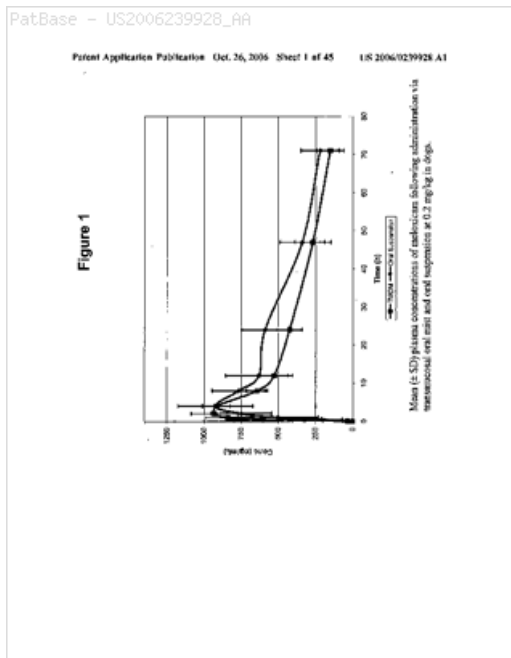
Title: TRANSMUCOSAL ADMINISTRATION OF DRUG COMPOSITIONS FOR TREATING AND PREVENTING DISORDERS IN ANIMALS

Abstract: The invention includes compositions for transmucosal administration to an animal comprising at least one active agent and a pharmaceutically acceptable carrier. A preferred active agent is selected from the group consisting of meloxicam, carprofen, enrofloxacin, clemastine, diphenhydramine, digoxin, levothyroxine, cyclosporine, ondansetron, lysine, zolpidem, propofol, nitenpyram, ivermectin, milbemycin, and pharmaceutically acceptable salts, solvates and esters thereof. In another embodiment, the invention includes methods of treating or preventing a condition in an animal comprising transmucosally administering a composition comprising a therapeutically or prophylactically effective amount of an active agent and a pharmaceutically acceptable carrier.

Classifications:

International (IPC 8-9): A01K29/00 A01N25/00 A61D7/00 A61F13/514 A61K31/05 A61K31/135 A61K31/138 A61K31/198 A61K31/352 A61K31/365 A61K31/366 A61K31/40 A61K31/403 A61K31/4178 A61K31/425 A61K31/426 A61K31/427 A61K31/437 A61K31/44 A61K31/496 A61K31/54 A61K31/541 A61K31/5415 A61K31/704 A61K31/7048 A61K38/00 A61K38/12 A61K38/13 A61K45/00 A61K47/02 A61K47/10 A61K9/00 A61K9/12 A61L9/04 A61M11/00 A61P1/00 A61P1/08 A61P25/20 A61P29/00 A61P3/00 A61P3/02 A61P31/00 A61P31/04 A61P33/00 A61P37/06 A61P37/08 A61P43/00 A61P9/00 B65D83/54 (Advanced/Invention); A61K31/704 A61K31/7048 A61K38/13 A61K9/12 (Advanced/Non-

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A61K31/5415 A61K31/7028 A61K31/7042 A61K38/12 A61K45/00
A61K47/10 A61K9/12 A61L9/04 A61P1/00 A61P29/00 A61P3/00
A61P31/00 A61P33/00 A61P37/00 A61P43/00 (Core/Invention)
CPC: A61K9/12 A61K31/704 A61K31/7048 A61K38/13 A61K31/44
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A61K31/4178
European: A61K31/4178 A61K31/704 A61K31/7048 A61K38/13
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US: 128/200.14 128/200.21 128/200.23 424/1.13 424/434 424/435
424/45 424/45P 514/11 514/16.4 514/16.400S 514/20.5
514/20.500S 514/224.2 514/226.5 514/253.08 514/26 514/26S
514/28 514/28S 514/30 514/300 514/357 514/365 514/371 514/397
514/397S 514/411 514/428 514/450 514/5.9 514/5.900S 514/564
514/567 514/567S 514/648 514/731 514/731S 514/772 544/49
544/52 548/146 548/190 548/195



Family:

Publication number	Publication date	Application number	Application date
AU2006214166 AA	20060824	AU20060214166	20060217
AU2006214166 BB	20110929	AU20060214166	20060217
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EP1848270 B1	20140521	EP20060735301	20060217
EP2767163 A1	20140820	EP20140163319	20060217
ES2490595 T3	20140904	ES20060735301T	20060217
JP2008530233 T2	20080807	JP20070556306T	20060217
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Priority:

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AU20130263787 20131128	US20140578728 20141222	

Probable Assignee: ZOETIS BELGIUM SA

Assignee(s): (std): BENITZ ANTONIO ; BENITZ ANTONIO M ; HEIT MARK ; HEIT MARK C ; VELCERA PHARMACEUTICALS ; NOVADEL PHARMA INC ; STEADMAN DENNIS ; PETRICK DAVID ; PETRICK DAVID M ; STEADMAN DENNIS F ; VELCERA PHARMACEUTICALS INC ; ABBOTT LAB ; ZOETIS BELGIUM S A

Assignee(s): ABBOTT LABORATORIES ; VELCERA INC ; ZOETIS BELGIUM SA

Inventor(s): (std): BENITZ ANTONIO ; BENITZ ANTONIO M ; HEIT MARK ; HEIT MARK C ; PETRICK DAVID ; PETRICK DAVID M ; STEADMAN DENNIS ; STEADMAN DENNIS F ; MARK HEIT ; DENNIS STEADMAN ; DAVID PETRICK ; ANTONIO BENITZ

Inventor(s): STEADMAN DENNIS YARDLEY ; PETRICK DAVID PRINCETON ; HEIT MARK LANSDALE ; BENITZ ANTONIO NEWTOWN

Agent(s): ALLENS ARTHUR ROBINSON PATENT AND TRADE MARKS ATTORNEYS; ALLENS PATENT AND TRADE MARK ATTORNEYS; DEETH WILLIAMS WALL LLP; SMART AND BIGGAR; LEINWEBER AND ZIMMERMANN; WALTON SEAN MALCOLM; VALLEJO JUAN PEDRO; INABA YOSHIYUKI; OHGA SHINJI; COOLEY GODWARD LLP; COOLEY LLP; WHYTE HIRSCHBOECK DUDEK SC

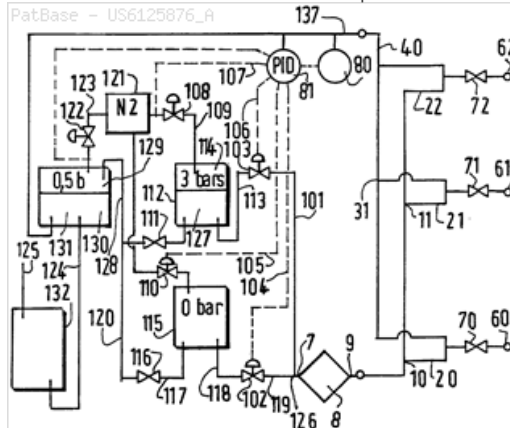
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22) Family number: 12572156 (US6125876A)

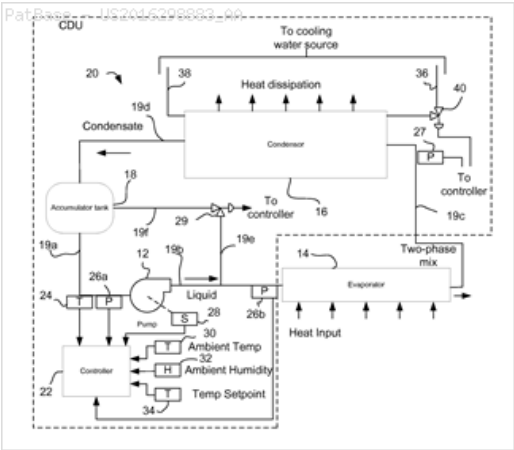
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Title: APPARATUS AND PROCESS FOR DELIVERING AN ABRASIVE SUSPENSION FOR THE MECHANICAL POLISHING OF A SUBSTRATE

Abstract: An apparatus for delivering abrasive suspensions includes a reservoir containing an abrasive suspension, a loop for delivering the abrasive suspension to a point of use, the loop being connected to the reservoir, a pumping arrangement for circulating the abrasive suspension in the loop and for ensuring its return into the reservoir, the loop and the reservoir being arranged for recovering the abrasive suspension after circulation in the loop at a recovery point of the reservoir, and a control system for controlling the pumping arrangement so as to maintain a continuous circulation of the suspension.

Classifications:**International (IPC 8-9):** B24B37/00 B24B37/04 B24B57/00 B24B57/02 B24B7/24 (Advanced/Invention)**International (IPC 1-7):** B24B37/00 B24B37/04 B24B57/00 B24B57/02 B24B7/24 B67D5/02 E03B11/00 H01L21/304**CPC:** Y10T137/4673 Y10T137/469 Y10T137/4807 B24B57/02 B24B37/04**European:** B24B37/04 B24B57/02**US:** 137/255 137/256 137/263 222/1 222/129 222/134 222/3 222/61 222/71

CPC: H05K7/20827 H05K7/20836 Y02B30/72 F25B23/006 F25B41/04
F25B2341/0653 F25B2600/2501 F25B2600/2513
US: 62/118



Family:

Publication number	Publication date	Application number	Application date
EP3069585 A1	20160921	EP20140782028	20140924
US2016298883 AA	20161013	US20140036505	20140924
WO15073122 A1	20150521	WO2014US57181	20140924

Priority:

US20130903997P 20131114 US20140036505 20140924 WO2014US57181 20140924

Probable Assignee: PARKER HANNIFIN CORP

Assignee(s): (std): PARKER HANNIFIN CORP

Inventor(s): (std): CHAVIS ADRIAN ; LOUVAR TIMOTHY DOUGLAS

Agent(s): BELCHER SIMON JAMES; FAFRAK KENNETH W

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

24) Family number: 7894172 (US4223535A) © PatBase

Title: ABSORPTION SOLAR POWERED AIR CONDITIONING SYSTEM WITH STORAGE CAPACITY

Abstract: This air conditioning system includes low pressure water vaporization, transfer and absorption, both in a solution concentrating section using solar radiation or other heat input and in a solution diluting section where heat exchange with ambient fan blown air subsequently permits cooling or heating enclosure air. The fan blown enclosure air is cooled or heated in passing through the same heat exchanger by changing the flow paths of the solutions passing to and from the two unique vapor exchangers, which are described in detail. The solutions are separated but contained in a sealed system with storage volume to give a large heat capacity potential by changing the solution concentration to either cool or heat the enclosure air. The various system operational modes are described in detail, with the functioning of the vapor exchangers and heat exchangers in concert with the flows through pipes and ducts as generated by pumps and fans together with control by valves.

Classifications:

International (ipc 8-9): F24F5/00 F25B15/06

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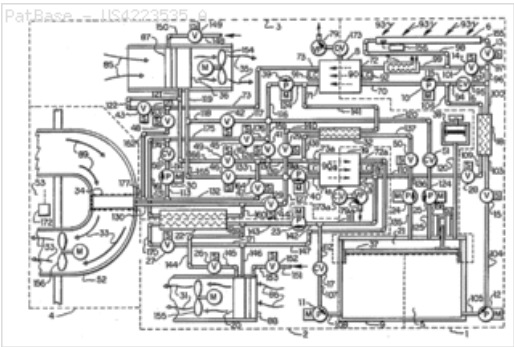
F24F5/00 F25B15/02 F25B27/00 (Core/Invention)

International (ipc 1-7): F25B15/00 F25B27/00

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European: F24F5/00F F25B15/06 F25B27/00B4 Y02B30/62

US: 165/48.2 62/148 62/2 62/235.1 62/476



Family:

Publication number	Publication date	Application number	Application date
US4223535 A	19800923	US19780972539	19781222

Priority:

US19780972539 19781222

Probable Assignee: KUMM EMERSON L

Assignee(s): (std): KUMM EMERSON L

Inventor(s): (std): KUMM EMERSON L

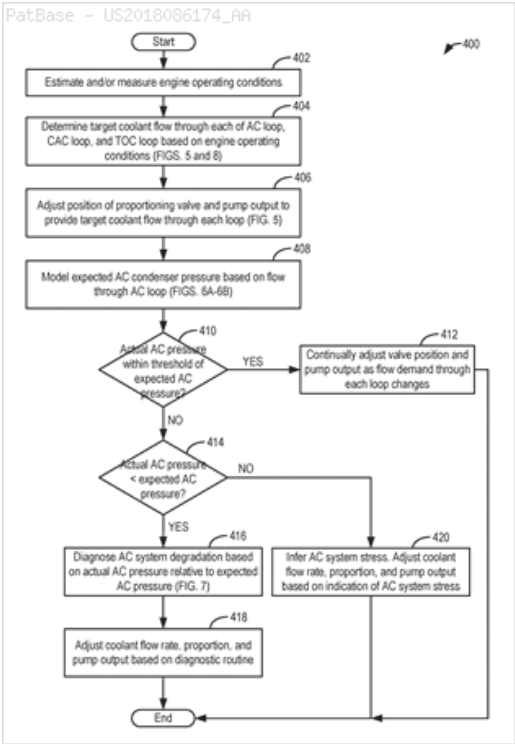
25) Family number: 69019173 (US2018086174A) © PatBase

Title: METHODS AND SYSTEMS FOR COOLANT SYSTEM

Abstract: Methods and systems are provided for controlling coolant flow through parallel branches of a coolant circuit including an AC condenser and a charge air cooler. Flow is apportioned responsive to an AC head pressure and a CAC temperature to reduce parasitic losses and improve fuel economy. The flow is apportioned via adjustments to a coolant pump output and a proportioning valve.

Classifications:

International (IPC 8-9): B60H1/00 B60H1/03 B60H1/32 F01P11/16 F01P3/12 F01P3/20 F01P3/22 F01P7/14 F01P7/16 F01P9/06 F02B29/04 F16H41/30 F16H57/04 (Advanced/Invention)
CPC: B60H1/00271 F02B29/0412 F02B29/0443 B60H2001/00307 F01P9/06 F01P11/16 F01P3/2285 B60H1/3211 B60H1/3227 B60H2001/3279 B60H2001/3283 F01P3/20 F01P7/14 F01P2007/146 F01P2050/22 F01P2060/12 F01P2060/14 F02B29/0425 F16H41/30 F16H57/0412 F01P2060/02 F01P2060/045 F02B29/0493 Y02T10/146



Family:

Publication number	Publication date	Application number	Application date
CN107867144 A	20180403	CN201710845400	20170919
DE102017122273 A1	20180329	DE201710122273	20170926
US2018086174 AA	20180329	US20160277943	20160927
US2019077214 AA	20190314	US20180189506	20181113
US10124647 BB	20181113	US20160277943	20160927

Priority:

US20160277943 20160927 US20180189506 20181113

Probable Assignee: FORD GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): FORD GLOBAL TECH LLC ; FORD GLOBAL TECHNOLOGIES INC

Assignee(s): FORD GLOBAL TECHNOLOGIES LLC

Inventor(s): (std): BIDNER DAVID KARL ; HAMILTON HUGH ; ROLLINSON JAMES C ; JAMES C ROLLINSON ; HUGH HAMILTON ; DAVID KARL BIDNER

Agent(s): VOUTYRAS JULIA; MCCOY RUSSELL LLP

26) Family number: 69019175 (US2018086175A)

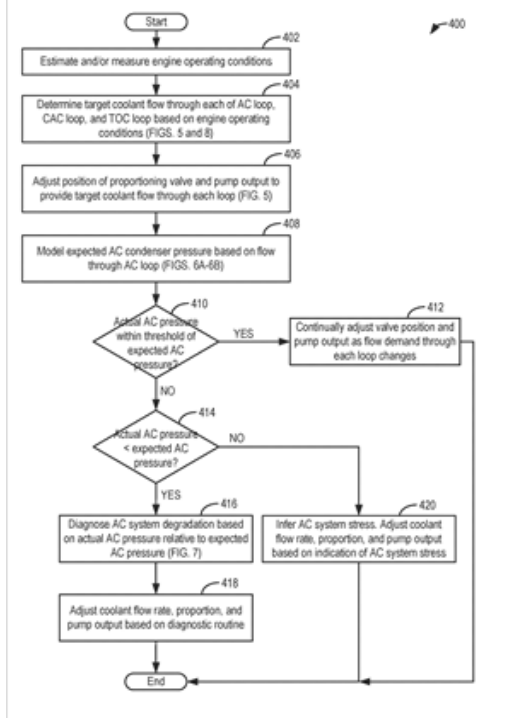
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Title: METHODS AND SYSTEMS FOR COOLANT SYSTEM

Abstract: Methods and systems are provided for controlling coolant flow through parallel branches of a coolant circuit including an AC condenser and a charge air cooler. Flow is apportioned responsive to an AC head pressure and a CAC temperature to reduce parasitic losses and improve fuel economy. The flow is apportioned via adjustments to a coolant pump output and a proportioning valve.

Classifications:

International (IPC 8-9): B60H1/00 B60H1/32 F01P11/16 F01P3/12 F01P3/22 F01P7/14 F01P9/06 F02B29/04 (Advanced/Invention)
CPC: B60H1/00271 F02B29/0412 F02B29/0443 B60H2001/00307 F01P9/06 F01P11/16 F01P3/2285 B60H1/32 B60H2001/3289 F02B29/04 F01P2060/02 F01P2060/045 F02B29/0493 Y02T10/146

**Family:**

Publication number	Publication date	Application number	Application date
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RU2017128130 A3	20190219	RU20170128130	20178007
RU2017128130 A3	20190219	RU20170128130	20170807
US2018086175 AA	20180329	US20160277967	20160927
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Priority:

US20160277967 20160927 RU20170128130 20178007

Probable Assignee: FORD GLOBAL TECHNOLOGIES LLC**Assignee(s):** (std): FORD GLOBAL TECH LLC ; FORD GLOBAL TECHNOLOGIES INC**Assignee(s):** FORD GLOBAL TECHNOLOGIES LLC ; FORD GLOBAL TEKNOLODZHIZ LLK**Inventor(s):** (std): ROLLINSON JAMES C ; RICHARDSON ALAN ; RAVI GOPAL ; JAMES C ROLLINSON ; HUGH HAMILTON ; HAMILTON HUGH ; GOPAL RAVI ; DAVID KARL BIDNER ; BIDNER DAVID KARL ; ALAN RICHARDSON**Inventor(s):** BAJDNER DEVID KARL ; GAMILTON KHYU ; GOPALAKRISHNAN RAVI ; ROLLINSON DZHIM S**Agent(s):** ARS PATENT MV KHMARA; VOUTYRAS JULIA; MCCOY RUSSELL LLP**27) Family number: 51897186** (US2013338330A)

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Title: PENTAMETHYLENEDIISOCYANATE, METHOD FOR PRODUCING PENTAMETHYLENEDIISOCYANATE, POLYISOCYANATE COMPOSITION, POLYURETHANE RESIN, AND POLYUREA RESIN**Abstract:** A Pentamethylene diisocyanate is obtained by phosgenating pentamethylenediamine or its salt obtained by a biochemical method, and contains 5 to 400 ppm of a compound represented by the general formula (1) below and a compound represented by the general formula (2) below in total:**Classifications:****International (IPC 8-9):** C07C C07C263/10 C07C263/20

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C08G18/02 C08G18/10 C08G18/38 C08G18/40 C08G18/42

C08G18/48 C08G18/62 C08G18/73 C08G18/75 C08G18/78

C08G18/79 C12P C12P13/00 (Advanced/Invention);

C07C265/14 (Core/Invention);

C07C C08G C12P (Subclass/Invention)

CPC: C07C265/04 C08G18/022 C08G18/10 C08G18/4063

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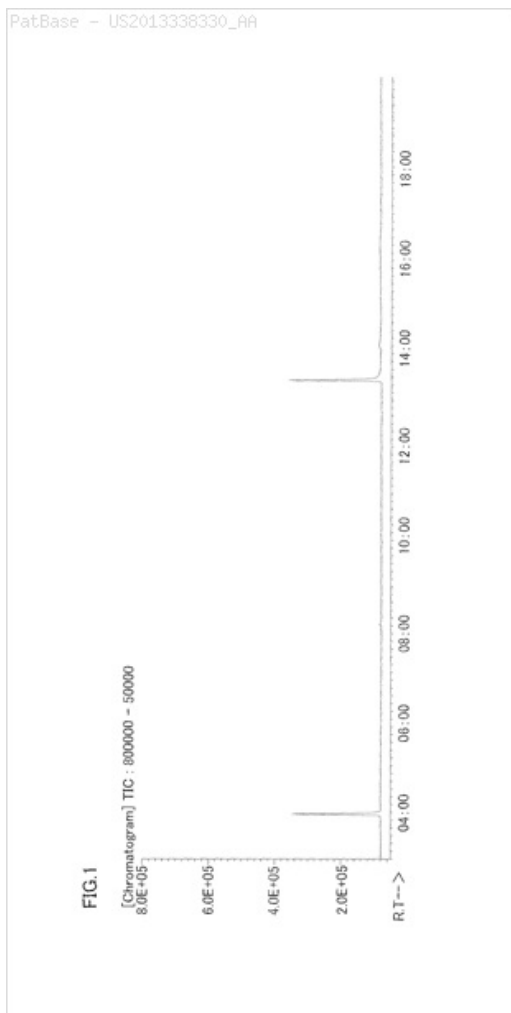
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C12P13/001 C12Y401/01018 C08G18/3228 C08G18/3825

C08G18/7831 C08G18/7837 C08G18/7843 C08G18/791 C07D251/34

C07C263/10 C07C265/14 C08G18/73 C07C263/20 C08G71/02

US: 1/1 528/65 528/73 544/222 560/330 560/347



Family:

Publication number	Publication date	Application number	Application date
BR112013023020 A2	20170613	BR20131123020	20120307
CN103347852 A	20131009	CN201280005547	20120307
CN103347852 B	20160413	CN201280005547	20120307
EP2684867 A1	20140115	EP20120754970	20120307
EP2684867 A4	20140924	EP20120754970	20120307
EP2684867 B1	20190102	EP20120754970	20120307
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IN293151 B	20180223	IN2013CN06142	20130730
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JP5849088 B1	20160127	JP20130503579T	20120307
KR101544296 B1	20150813	KR20137023268	20120307
KR101604961 B1	20160318	KR20157006405	20120307
KR20130127504 A	20131122	KR20137023268	20120307
KR20150038648 A	20150408	KR20157006405	20120307
MY163292 A	20170915	MY20130003092	20120307
TH142253 A	20150803	TH20131005030	20120307
TW201302680 A	20130116	TW20120107791	20120308
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US2016083503 AA	20160324	US20150962417	20151208
US2016090368 AA	20160331	US20150962369	20151208
US9234069 BB	20160112	US20120001837	20120307
US9371413 BB	20160621	US20150962417	20151208
US9376404 BB	20160628	US20150962369	20151208
WO12121291 A1	20120913	WO2012JP55821	20120307

Priority:

JP20110051505 20110309 JP20130503579 20120307 WO2012JP55821 20120307
 US20120001837 20120307 US20150962417 20151208 US20150962369 20151208

Probable Assignee: MITSUI CHEMICALS INC

Assignee(s): (std): MITSU CHEMICALS INC ; MITSUI CHEMICALS INC ; NAKAGAWA TOSHIHIKO ; SATO KUNIAKI ; TAKEUCHI HIROSHI ; YAMASAKI SATOSHI

Inventor(s): (std): SATO KUNIAKI ; YAMASAKI SATOSHI ; NAKAGAWA TOSHIHIKO ; TAKEUCHI HIROSHI ; TOSHIHIKO NAKAGAWA ; SATOSHI YAMASAKI ; HIROSHI TAKEUCHI ; KUNIAKI SATO

Agent(s): HOFFMANN EITLE; KING AND WOOD MALLESONS; KING AND WOOD MALLESONS IP LTD; FOLEY AND LARDNER LLP; OKAMOTO HIROYUKI

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 QA RO RS RU RW 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

28) Family number: 36001200 (US2007207040A)

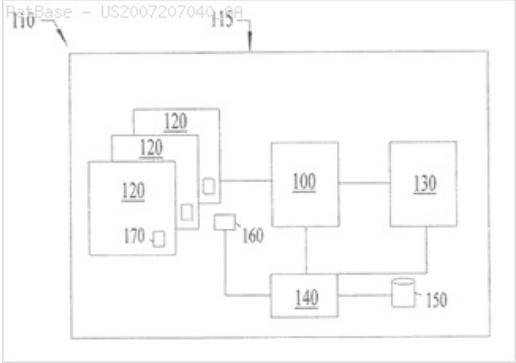
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Title: PUMP SYSTEM WITH CALIBRATION CURVE

Abstract: A pumping system for pumping one out of a number of fluids with varying viscosities. The pumping system may include a positive displacement pump and a control for operating the positive displacement pump. The control may include viscosity compensation data. The viscosity compensation data relates to at least one of the fluids such that the control instructs the positive displacement pump to operate based on the viscosity of the fluid.

Classifications:

International (IPC 8-9): A47J31/40 A47J31/44 A47J31/46 B62D1/04 B67D B67D1/00 B67D1/04 B67D1/07 B67D1/08 B67D1/10 B67D1/12 B67D5/00 B67D5/08 B67D5/56 B67D7/02 B67D7/08 B67D7/14 B67D7/22 B67D7/32 B67D7/58 B67D7/74 B67D99/00 E03B11/16 F04B F04B13/00 F04B13/02 F04B17/04 F04B49/06 F04B49/10 F04B51/00 F04B53/00 F04D15/00 F16K3/26 F16K31/00 F16K31/06 G01F1/00 G01F1/34 G01F1/38 G01F1/56 G01F1/66 G01F11/00 G01F13/00 G01F23/00 G01F3/10 G01F3/20 G05B G05B15/02 G05B19/042 G05B19/406 G05B21/02 G05D11/00 G05D16/20 G05D7/06 G06F G06F17/00 G06F19/00 G06K17/00 G06K19/07 G06K19/077 G06K7/00 G06K7/10 G06Q10/00 G07F13/00 G07F13/06 G07F13/10 G08B13/14 G08B13/24 G16H20/60 H01H35/34 H01P7/00 H01Q H01Q1/22 H01Q1/50 H01Q1/52 H01Q11/12 H01Q15/00 H01Q19/00 H01Q19/06 H01Q7/00 H01Q7/04 H01Q9/00 H01Q9/04 H01Q9/16 H02P27/04 H02P8/00 H04B5/02 (Advanced/Invention); A47J31/40 B65B3/30 B67D1/00 G01F23/00 G01F3/10 G01F3/20 H01Q1/22 (Advanced/Non-invention); B67D1/00 B67D7/00 B67D7/08 B67D7/74 B67D99/00 F04B13/00 F04B49/06 G01F1/34 G01F23/00 G05B19/04 G05D7/06 G06F19/00 G08B13/14 H01P7/00 H01Q1/50 H01Q19/00 H01Q7/00 H01Q9/00 H01Q9/04 H02P27/04 H02P8/00 (Core/Invention); B67D F04B G05B G06F H01Q (Subclass/Invention)



International (IPC 1-7): B62D1/04 B67D5/08 F04B13/02 F04B49/06 G06F19/00 H01Q9/16 H02P8/00
CPC: B67D7/14 A47J31/36 A47J31/42 A47J31/52 B67D7/221 F04B17/04 B67D1/0888 F04B49/06 F04B51/00 B67D1/1218 B67D1/1234 B67D1/0878 B67D1/1206 G05D7/0635 F04B13/02 G05D11/132 G05D11/133 B67D2210/00034 B67D2210/0006 G01F3/10 G01F3/20 G01F23/0076 G06K7/10336 G06K19/07749 Y10T137/7761 G05B19/0428 G06F19/3475 A47J31/40 G06K7/0008 G06K7/10316 H01Q15/0086 H01Q19/00 G01F1/662 G01F1/34 G05D7/0617 H01Q1/50 B67D1/10 G05B15/02 G05B19/406 G05B2219/31455 H01Q7/00 H01Q1/2208 G06F19/3456 Y10T137/7722 Y10T137/7759 Y10T137/85978 B67D1/0855 B67D1/0036 G01F1/56 H01Q1/2225 H01Q7/005 H01Q9/16 G06K19/07767 G06K19/07786 H01Q9/0464 G06K7/10089 H01Q1/521 B67D1/122 F04D15/0027 B67D1/104 B67D2001/0097 B67D1/0034 Y10T137/5987 Y10T137/7782 Y10T137/86027 Y10T137/86799 H01Q1/2216 G16H20/60 B67D1/0892
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Family:

Publication number	Publication date	Application number	Application date
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Title: PUMP, IN PARTICULAR PNEUMATIC PUMP

Abstract: The invention relates to a pump comprising a housing (2), comprising at least one pump chamber (15), comprising an inlet valve (30) that has a valve element (30a) which controls an inlet opening (30c), comprising an outlet valve (33) that has a valve element (33a) which controls an outlet opening (33c), comprising a pressure relief valve (43) that has a valve element (43a) which controls a pressure relief opening (43c) and on which a spring element (48) acts in the closing direction (31), and comprising a spring chamber (49) that receives the spring element. A stop element (51) which can be accessed from the housing outer face and which can be adjusted in the closing direction (31) is arranged in the spring chamber (49), the spring element (48) end that faces away from the closing direction resting against the stop element.

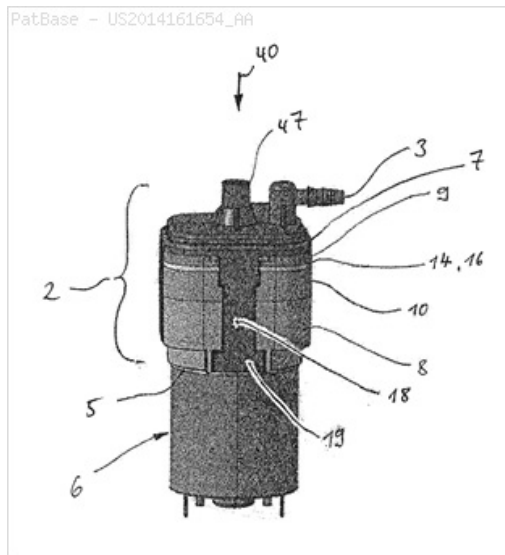
Classifications:

International (IPC 8-9): B60N2/44 B60N2/66 B60N2/90 F04B27/08 F04B39/08 F04B43/00 F04B43/02 F04B45/04 F04B49/035 F04B49/22 F16K15/14 F16K17/04 F16K17/06 (Advanced/Invention)

CPC: F04B43/021 F04B45/045 F04B43/028 F04B49/035 F04B49/22

F04B45/043 F04B43/0045

US: 1/1 417/307 417/443

**Family:**

Publication number	Publication date	Application number	Application date
CN103711682 A	20140409	CN201410006620	20120903
CN103711682 B	20161026	CN201410006620	20120903
CN103717897 A	20140409	CN201280027521	20120903
DE112012002756 A5	20140626	DE201211002756T	20120903
DE112012005082 B3	20180426	DE201211005082T	20120903
DE202012013619 U1	20180927	DE201220013619U	20120903
US2014161654 AA	20140612	US20130097484	20131205
US2014234132 AA	20140821	US20120123998	20120903
US9261092 BB	20160216	US20130097484	20131205
WO13030408 A1	20130307	WO2012EP67126	20120903

Priority:

DE201110082105	20110902	CN201280027521	20120903	CN201410006620	20120903
US20120123998	20120903	DE201211002756T	20120903	WO2012EP67126	20120903
US20130097484	20131205				

Probable Assignee: ALFMEIER PRAEZISION BAUGRUPPEN U SYSTEMLOESUNGEN AG**Assignee(s):** (std): ALFMEIER PRAEZ AG ; ALFMEIER PRAEZ BAUGRUPPEN U SYSTEMLOESUNGEN AG ; ALFMEIER PRAEZ SE ; DOERFLER ERICH ; GEHLMANN RONNY ; ALFMEIER PRAEZISION BAUGRUPPEN U SYSTEMLOESUNGEN AG ; ALFMEIER PRAEZISION BAUGRUPPEN U SYSTEMLOESUNGEN AG**Assignee(s):** ALFMEIER PRAEZISION SE ; ALFMEIER PRAEZISION AG BAUGRUPPEN UND SYSTEMLOESUNGEN**Inventor(s):** (std): DOERFLER ERICH ; GEHLMANN RONNY**Agent(s):** THOMAS KARCESKI AND KARMILOVICH PC ; MOERTEL AND HOEFNER**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 IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW 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**30) Family number: 60402223 (US2017097007A)**

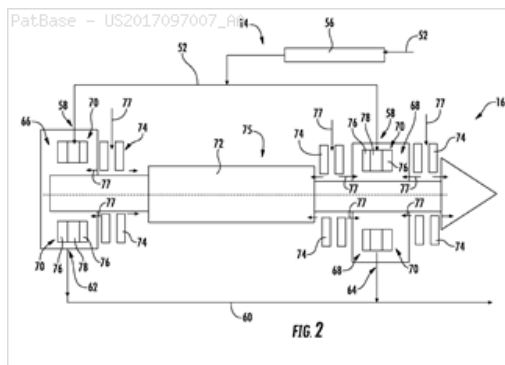
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Title: REFRIGERANT LUBE SYSTEM**Abstract:** In one embodiment, a compressor assembly is provided. The compressor assembly includes a compressor having an inlet, an outlet, and at least one bearing, the compressor configured to compress a first refrigerant. The assembly further includes a lubrication supply conduit fluidly coupled to the compressor and configured to supply a lubricant to the at least one bearing. The lubricant is a second refrigerant.**Classifications:**

International (IPC 8-9): C09K5/04 C10M171/00 F04B39/02 F04B53/18 F04C18/16 F04C29/02 F04D17/08 F04D29/056 F04D29/059 F04D29/063 F25B31/00 F25B5/04 (Advanced/Invention)

CPC: F04B39/02 F04B53/18 F04D29/059 F25B5/04 F25B31/004 F04D17/08 F04D29/056 F04C18/16 F04C29/02 F25B31/002 C09K5/044 C10M171/008 F04C2240/50 F25B2400/05 C09K2205/126 C10N2220/301 F04D29/063 F04B39/0215 F25B2500/16

US: 62/473

**Family:**

Publication number	Publication date	Application number	Application date
CN106133316 A	20161116	CN201580014231	20150317
DE602015008038 D1	20180315	DE201560008038T	20150317

EP3120022 A1	20170125	EP20150714715	20150317
EP3120022 B1	20180214	EP20150714715	20150317
US2017097007 AA	20170406	US20150126928	20150317
WO15142825 A1	20150924	WO2015US20930	20150317

Priority:

US20140954781P 20140318 EP20150714715 20150317 WO2015US20930 20150317
US20150126928 20150317

Probable Assignee: CARRIER CORP

Assignee(s): (std): CARRIER CORP

Assignee(s): CARRIER FARMINGTON CORP

Inventor(s): (std): SISHTLA VISHNU M

Inventor(s): SISHTLA VISHNU M SYRACUSE

Agent(s): KLUNKER SCHMITT NILSON HIRSCH; SCHMITT NILSON SCHRAUD WAIBEL WOHLFROM
PATENTANWAELTE PARTNERSCHAFT MBB; BALDRIDGE LUKAS M

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

31) Family number: 62177236 (US2017234842A)

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Title: DEVICE AND METHOD FOR CHANGING SOLUTION CONDITIONS IN SERIAL FLOW

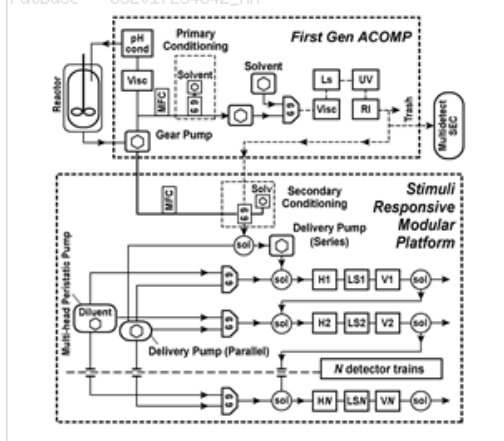
Abstract: Disclosed herein is a device and method for changing the conditions of a solution flowing in a serial path. In particular, disclosed herein is a device that includes a chemical reactor, a first system, and a second system that are each serial to one another. Each of the first system and the second system include a mixing chamber, a solvent reservoir, a solvent pump, and one or more detectors. Also disclosed herein is a method for changing the condition of a solution that includes flowing a liquid sample in a path, serially mixing the sample with at least two discrete solvents while it flows through the path, and detecting the condition of the sample after it is mixed with each solvent.

Classifications:

International (IPC 8-9): B01F13/10 B01F15/00 B01F15/02 B01J19/00 B01J19/24 B01J4/00 C12M1/34 G01N21/75 G01N30/26 G01N30/78 (Advanced/Invention)

CPC: B01F13/1016 B01F15/00227 B01F15/0243 B01F2013/1052 G01N30/78 C12M1/34 B01D2313/08 G01N2015/0092 B01F15/0022 G01N1/38 G01N15/02 B01J4/00 B01J19/0093 B01J19/245 B01J2219/00813 B01J2219/00867 B01J2219/00871 B01J2219/00889 B01J2219/00894 B01J2219/00952 B01J2219/00968 B01J2219/00997

PatBase - US2017234842_AA



Family:

Publication number	Publication date	Application number	Application date
AU2015333761 AA	20170601	AU20150333761	20151013
CA3001555 AA	20180410	CA20153001555	20151013
EP3207368 A2	20170823	EP20150850092	20151013
EP3207368 A4	20180411	EP20150850092	20151013
JP2017537311 T2	20171214	JP20170520968T	20151013
KR20170068545 A	20170619	KR20177012624	20151013
US2017234842 AA	20170817	US20150518658	20151013
WO16061024 A2	20160421	WO2015US55204	20151013
WO16061024 A3	20161013	WO2015US55204	20151013

Priority:

US20140063020P 20141013 US20150518658 20151013 WO2015US55204 20151013

Probable Assignee: ADMINISTRATORS OF TULANE EDUCATIONAL FUND

Assignee(s): (std): ADMINISTRATORS OF TULANE EDUCATIONAL FUND ; UNIV TULANE

Assignee(s): REED WAYNE F

Inventor(s): (std): REED WAYNE F

Agent(s): FPA PATENT ATTORNEYS PTY LTD; GOWLING WLG CANADA LLP; ZACCO SWEDEN AB; DESHIMARU
TAKESHI; HAKODA ATSUSHI; ASAI KENJI; YAMASAKI KAZUO; ICHIKAWA SATSUKI; HATTORI
HIRONOBU; BERKOWSKI KIMBERLY L ET AL

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

Title: SENSOR FOR ANALYZING COMPONENTS OF FLUIDS

Abstract: A sensor is provided that is useful for assaying a component of a biological fluid such as blood, urine or milk, and comprises a chamber having an inlet, a liquid containing portion and a vapor containing portion. The liquid and vapor containing portions are in fluid communication. A pressure monitor is in communication with the vapor containing portion and measures pressure change within the vapor containing portion, such as carbon dioxide partial pressure changes which are related to concentration of urea in blood, urine or milk when the enzyme is urease. A method of analyzing a component such as urea in a biological fluid is also provided. Where the biological fluid is dairy milk, milk urea nitrogen to a prediction error of about +/- 1 mg/dl may be repeatedly measured in the physiological range of from about 6 to 24 mg/dl.

Classifications:

International (IPC 8-9): C12Q1/00 C12Q1/58 (Advanced/Invention);

C12Q1/00 C12Q1/58 (Core/Invention)

International (IPC 1-7): C12M1/34 C12Q1/58

CPC: Y10T436/171538 C12Q1/001 C12Q1/58 G01N2333/98

European: C12Q1/00B C12Q1/58 S01N333/980

US: 422/74 422/98 422/98S 435/12 435/287.5 435/287.500S 435/4 435/4P 436/108 436/148 436/148S 436/22

PatBase - US2001018206_AA

Patent Application Publication Aug. 30, 2001 Sheet 1 of 2 US 2001/0018206 A1

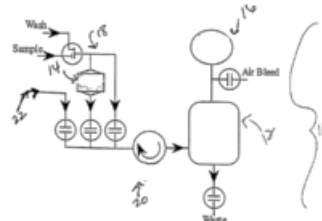


FIG. 1

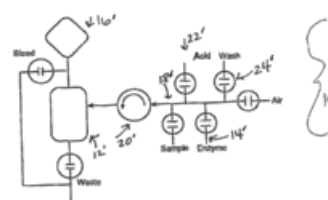


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
US2001018206 AA	20010830	US20010839939	20010419
US2003036052 AA	20030220	US20020209455	20020730
US6287851 BA	20010911	US19990349814	19990709
US6733984 BB	20040511	US20010839939	20010419

Priority:

US19990349814 19990709 US20010839939 20010419 US20020209455 20020730

Probable Assignee: OF CALIFORNIA UNIV

Assignee(s): (std): BONDURANT ROBERT H ; DELWICHE MICHAEL J ; DEPETERS EDWARD J ; JENKINS DANIEL M ; UNIV CALIFORNIA

Assignee(s): OF CALIFORNIA UNIV ; REGENTS OF THE UNIVERSITY OF CALIFORNIA ; THE REGENTS OF THE UNIVERSITY OF CALIFORNIA ; THE UNIV OF CALIFORNIA ; UNIV

Inventor(s): (std): BONDURANT ROBERT H ; DELWICHE MICHAEL J ; DEPETERS EDWARD J ; JENKINS DANIEL M

Title: APPARATUS AND METHOD FOR A SUBMERSIBLE PUMP SYSTEM AND LINEAR ELECTROFUSION

Abstract: This invention relates generally to a high volume, buoyancy controlled submersible pump assembly designed to sit on the bottom of a body of water or other liquid substance and move a large volume of water or liquid substance.

Alternatively, the submersible pump assembly is capable of achieving and maintaining neutral buoyancy or near neutral buoyancy in a particular body of water or liquid substance. The neutrally buoyant version includes the means to maintain the pump assembly at a given depth without requiring it to sit on the bottom of the body of water or other liquid substance. This invention also relates to linear electrofusion for thermoplastic components.

Classifications:

International (IPC 8-9): B23P11/00 F04B49/02 F04B53/00

F04B53/20 F04D13/06 F04D29/70 (Advanced/Invention);

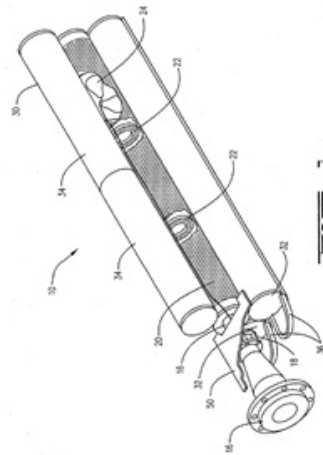
B23P11/00 F04B53/00 (Core/Invention)

CPC: F04D13/066 F04D29/708 Y10T29/49236 Y10T137/794

F04D13/086

European: F04D13/06F F04D29/70P

US: 137/544 137/544S 29/888.02 29/888.020S 417/14 417/423.3 417/423.9 417/61 417/61P

**Family:**

Publication number	Publication date	Application number	Application date
US2010054961 AA	20100304	US20090515162	20090515
US2013071257 AA	20130321	US20120674783	20121112
US8308443 BB	20121113	US20060515162	20061116
US8876491 BB	20141104	US20120674783	20121112
WO08060288 A1	20080522	WO2006US44787	20061116

Priority:

US20060515162 20061116 WO2006US44787 20061116 US20090515162 20090515
 US20120674783 20121112

Probable Assignee: PALECEK GARY M

Assignee(s): (std): PALECEK GARY M ; WATKINS DENNIS LEE

Inventor(s): (std): WATKINS DENNIS LEE ; PALECEK GARY M

Agent(s): MCAFFEE AND TAFT TENTH FLOOR TWO LEADERSHIP SQUARE; MCAFFEE AND TAFT; MILLER RICHARD G ET AL

Designated states: 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 GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

34) Family number: 36057262 (US2007213143A)

© PatBase

Title: EXTERIOR COATINGS FOR GOLF BALLS

Abstract: Improved golf ball exterior coatings which are used to create an extremely uniform hydrophobic or hydrophilic exterior surface on the golf ball. When the surface of the golf ball is hydrophobic, it tends to repel water, and this reduces drag on the golf ball surface as the golf ball travels through the air. When the surface of the golf ball is hydrophilic, the surface of the golf ball wets uniformly and the ball rolls straighter on a wet green, as the forces acting on the ball are more uniform. The hydrophobic or hydrophilic exterior coating is applied to the golf ball using vapor-phase deposition in instances where strict control over coating thickness uniformity, and/or reduced surface roughness is desired.

Classifications:

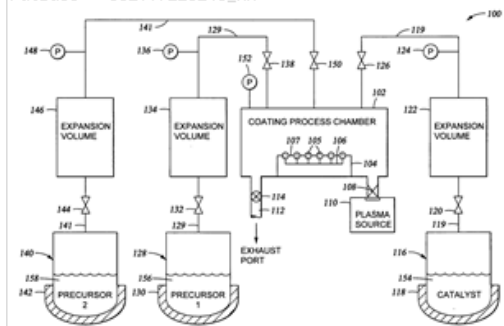
International (IPC 8-9): A63B37/00 A63B37/14 (Advanced/Invention); A63B37/00 A63B37/14 (Core/Invention)

CPC: A63B37/0022 A63B45/00 B05D1/60 B05D3/144 B05D5/04 B05D5/08 C23C16/401

European: A63B37/00G4 B05D1/60 C23C16/40B K63B45/00 L05D3/14C3C L05D5/04 L05D5/08

US: 473/351 473/351P 473/378 473/378S

PatBase - US2007213143_RR

**Family:**

Publication number	Publication date	Application number	Application date
US2007213143 AA	20070913	US20060370126	20060307

Priority:

US20060370126 20060307

Probable Assignee: APPLIED MICROSTRUCTURES INC
Assignee(s): (std): CHINN JEFFREY D ; YANG PETER P
Assignee(s): APPLIED MICROSTRUCTURES INC
Inventor(s): (std): CHINN JEFFREY D ; YANG PETER P
Inventor(s): YANG PETER ; YANG PETER PUI WA ; CHINN JEFFREY
Agent(s): SHIRLEY L CHURCH ESQ

35) Family number: 28097266 (US2001018170A)

© PatBase

Title: METHOD FOR PRODUCING GRAINS OF ALIPHATIC ACID SILVER SALT AND THERMALLY PROCESSED IMAGE RECORDING MATERIAL

Abstract: A method for producing grains of aliphatic acid silver salt by mixing a solution containing silver ions and a solution of aliphatic acid alkali metal salt to attain reaction of them, wherein (1) 95-100 percent of the total molar number to be added of the aliphatic acid alkali metal salt is added under a condition that dilution factor of the solution of aliphatic acid alkali metal salt becomes 10-fold or higher at 1 second after the addition, (2) 95-100 percent of the total amount to be added of silver in the solution containing silver ions is added under a condition that dilution factor of the solution containing silver ions becomes 20-fold or higher at 1 second after the addition, and (3) 50-100 percent of the total amount to be added of the solution of aliphatic acid alkali metal salt is added simultaneously with the solution containing silver ions. According to the present invention, there is provided a method for producing grains of aliphatic acid silver salt, which show excellent fog prevention ability, in addition, excellent fog prevention ability even after time lapse, when used in a thermally processed image recording material.

Classifications:

International (ipc 8-9): C07C51/41 C07C53/126 C07F1/10 G03C1/498 (Advanced/Invention);

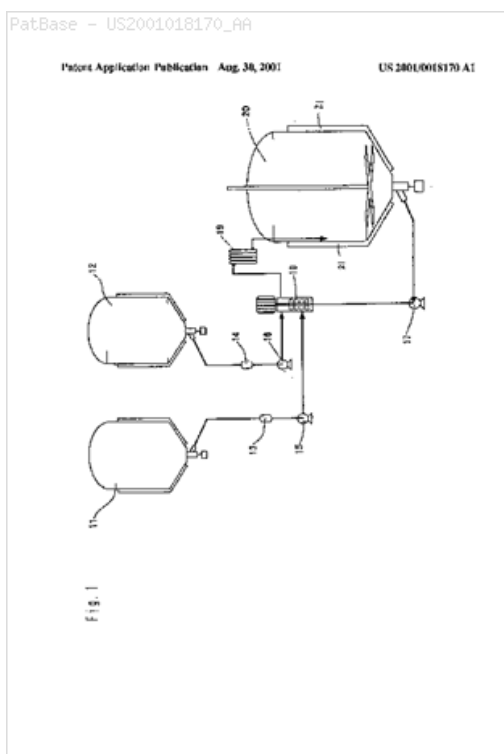
C07C51/41 C07C53/00 C07F1/00 G03C1/498 (Core/Invention)

International (ipc 1-7): C07C51/41 C07C53/126 G03C1/00 G03C1/498

CPC: G03C2200/43 G03C1/49809

European: G03C1/498B S03C1/498B

US: 430/617 430/617S 430/619 430/619S 430/620 430/620P 554/74



Family:

Publication number	Publication date	Application number	Application date
JP2001163827 A2	20010619	JP19990348230	19991207
JP4070378 B2	20080402	JP19990348230	19991207
US2001018170 AA	20010830	US20000730725	20001207
US6534258 BB	20030318	US20000730725	20001207

Priority:

JP19990348230 19991207

Probable Assignee: FUJIFILM HOLDINGS CORP

Assignee(s): (std): FUJI PHOTO FILM CO LTD

Assignee(s): FUJIFILM CORP ; FUJIFILM HOLDINGS CORP ; KAWANISHI NAOYUKI ; OYAMADA TAKAYOSHI ; FUJI PHOTO FILM CO

Inventor(s): (std): KAWANISHI NAOYUKI ; OYAMADA TAKAYOSHI

36) Family number: 57466267 (US2016011540A)

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Title: DEVELOPER SUPPLY KIT, DEVELOPER SUPPLYING DEVICE AND IMAGE FORMING APPARATUS

Abstract: A developer supply kit detachably mountable to a developer supplying apparatus comprising a developer supply container and a developer accommodated therein, wherein the developer supply container includes, a developer accommodating portion accommodating the developer, a discharge opening for discharging the developer accommodated in the developer accommodating portion, a drive receiving portion to which a driving force is inputted from the developer supplying apparatus, and a pump portion operable so that an internal pressure of the developer accommodating portion alternately and repetitively changes between a pressure lower than a ambient pressure and a pressure higher than the ambient pressure, by the driving force received by the drive receiving portion, wherein the developer accommodated in the

developer supply container includes toner containing binder resin material and a coloring material, the developer satisfies, $10^7 E \text{ (mJ)} \geq 80$, $0.4^7 E_a \text{ (mJ)} \geq 2.0$, where E is total energy when it is not aerated, and E_a is total energy when it is aerated.

Classifications:

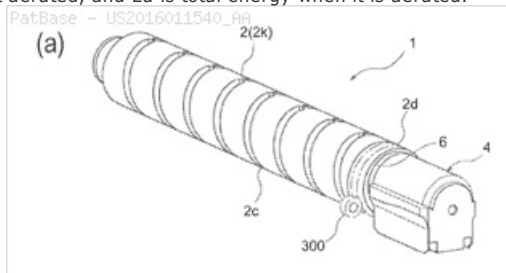
International (IPC 8-9): B65D83/06 G03G15/01

G03G15/08 (Advanced/Invention)

CPC: G03G15/087 G03G15/0877 G03G15/01 G03G15/0872

G03G15/0874

US: 399/260 399/262



Family:

Publication number	Publication date	Application number	Application date
JP2014182266 A2	20140929	JP20130056446	20130319
JP6128908 B2	20170517	JP20130056446	20130319
US2016011540 AA	20160114	US20150856912	20150917
US2017307999 AA	20171026	US20170639050	20170630
US2019018340 AA	20190117	US20180135685	20180919
US2019018341 AA	20190117	US20180135702	20180919
US9720349 BB	20170801	US20150856912	20150917
US10088773 BB	20181002	US20170639050	20170630
WO14147845 A1	20140925	WO2013JP60404	20130329

Priority:

JP20130056446 20130319 WO2013JP60404 20130329 US20150856912 20150917
US20150856912 20150917 US20170639050 20170630 US20180135685 20180919
US20180135702 20180919

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK

Assignee(s): CANON INC

Inventor(s): (std): FUJIKAWA HIROYUKI ; MURAKAMI KATSUYA ; MURAKAMI TAKEYA ; NAKAJIMA NOBUO ; NAKAMURA KUNIHICO ; WATABE EMI ; WATANABE EMI ; YAMADA YUSUKE ; YAMAOKA MASAHIITO ; YAMAOKA MASATO

Agent(s): FITZPATRICK CELLA HARPER AND SCINTO; YAMADA RYUICHI

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 IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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

37) Family number: 2265272 (US4844028A)

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Title: METHOD FOR REDUCING THE CONSUMPTION OF FUEL OF A HEAT ENGINE WHICH EMPLOYS COMBUSTION OF HYDROCARBONS, AND FOR REDUCING ATMOSPHERIC POLLUTANTS, AND DEVICE FOR CARRYING OUT THIS METHOD

Abstract: Method and device for reducing consumption of fuel by an engine, which involves saturating intake air or an air-fuel mixture with steam which is then dissociated prior to entering the engine.

Classifications:

International (IPC 8-9): F02B47/02 F02M25/022 F02M25/032

F02M27/02 (Advanced/Invention);

F02B1/04 (Advanced/Non-invention);

F02M25/00 F02M27/00 (Core/Invention);

F02B1/00 (Core/Non-invention)

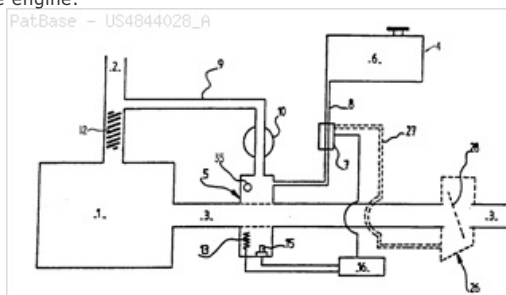
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F02B75/10 F02M25/02 F02M27/02

CPC: F02M25/0227 F02M25/032 F02M27/02 F02B1/04 Y02T10/121

European: F02M25/022 F02M27/02 R02B1/04

US: 123/25.00P 123/25P 123/3



Family:

Publication number	Publication date	Application number	Application date
CA1329521 A1	19940517	CA19870544266	19870812
CH674879 A	19900731	CH19870003037	19870807
DE3726854 A1	19880218	DE19873726854	19870812
ES2007405 AF	19890616	ES19870002516	19870813
FR2602829 A1	19880219	FR19870001943	19870216
FR2602829 B1	19920828	FR19870001943	19870216
GB2193760 A1	19880217	GB19870018752	19870807
GB2193760 B2	19910403	GB19870018752	19870807
GB8718752 A0	19870916	GB19870018752	19870807
GR871275 B	19871218	GR19870101275	19870813
IT1223294 A	19900919	IT19870021654	19870813
IT8721654 A0	19870813	IT19870021654	19870813
JP63075344 A2	19880405	JP19870201058	19870813
KR19880003100 A	19880513	KR19870008891	19870813
LU86553 A	19880302	LU19860086553	19860813
NL8701892 A	19880301	NL19870001892	19870812

Priority:

LU19860000553 19860813 LU19860086553 19860813 CA19870544266 19870812

Probable Assignee: FORAC SA**Assignee(s):** (std): BRUGG SVIZZERA ; ROGER VOLCHER ; ROJIYAA RUISU GISUREIN BORUSHI ; VOLCHER R ; VOLCHER ROGER**Assignee(s):** ROJIYAA RUISU GISUREIN BORUSHIYAA ; ROGER VOLCHER TE BRUEGG ZWITZERLAND ; FORAC BASSINES SA ; FORAC SA**Inventor(s):** (std): ROGER VOLCHER ; ROJIYAA RUISU GISUREIN BORUSHI ; VOLCHER ROGER**Inventor(s):** ROJIYAA RUISU GISUREIN BORUSHIYAA**Agent(s):** MARKS AND CLERK**(38) Family number: 3241282 (SU1114393A)**

© PatBase

Title: LINE FOR PROCESSING POTATO FOR FOOD AND TECHNICAL PURPOSES

Abstract: Source: SU1114393A **Machine translation:** 1, Unit 2 sink tubers and separating solids chopper 3 tubers device 4 for input additive mixer 5, 6 pump, filter press 7, 8 conveyor, mixer 9 10 chopper, hopper-dozasmesitel formovatel 25 pellet dryer 26, the storage hopper 27 fish meal, capacity 28 nonprotein potato juice, evaporation plant 29 and the holding tank 30 non-protein concentrate potato juice. The scroll device 14 for separating fine starchy fraction consists of the cochlea 31 (Fig. 2) mounted on the outlet duct 32 of the primary cyclone and a drier 13 comprising (fig.2) heat exchange fluid outlet port 33 and outlet port 34 to the coolant flow, saturated with starch particles, and a flow divider, as vtolnennogo flap 35 is rigidly associated with the axis 36 (Fig. 2) on which is mounted a lock lever 37 with the thickness of 38 for adjusting the intercept of the layer. The device 23 for the detention and release of the fine fraction of coagulated proteins (Figures 4 and 5) consists of a chamber with a deposition section 39 guide plates 40, 41 with a drive screw 42 for discharging sediment input 43 and output 44 ports. The line operates as follows. From this hopper 1 potatoes supplied to the unit 2 sinks and separate the impurities where omyvaets and purified from contaminants. Then enter the tubers 5izmelchitel 3 and pulverized into gruel. Kozffitsient grinding 86-92 percent. After preparing porridge product supplied to the mixer 5 where it is manufactured with the mixing of various additives improving the dewatering process, postupakidimi dispensed from the device 4. From the mixer 5 Potato porridge pump 6 is fed into a filter press 7, 11 Torr flour drying unit 12 from the dense fraction primary cyclone 13, on which the snail device 14, the precipitation associated with the cyclone 15, screening 16, 17 magnetic separators, storage hopper 18 for starch fraction hopper 19, container 20 to the cell sap, the heat exchanger 21, the unit 22 coagulation tion and separation of proteins by the cell sap protein and nonprotein juice slurry to the device 23 for fine fraction Detention coagulated proteins tank 24 for collecting the protein slurry. which is divided into the cell sap and dense fraction. The dense fraction of the conveyor 8 is supplied to a mixer 9, which in hopper 11 is fed metered dry powder. In the mixer 9, the dry powder is mixed with the dense fraction which leads to a decrease in humidity. Weight of the mixer is in translational chopper 10 and then drying unit 12. Mixing dense fraction of flour together with refinement allows psshuchat crumbly product ter ability to guide lumping advanced surface heat - and mass transfer, which significantly reduces the drying time. Drying of the product is manufactured on pnevmobarabannoy dryer 12. Dried mass potato coolant flow is rendered into a cyclone 13, in which the main compartment from its heat transfer fluid. Starch particle fractions do not have time to settle, in a cyclone and carried by the snail of his device 14 Bound duct to the cyclone 15, equipped with a fan. Coolant air duct 32 (3) ig.2 and 3) falls into the cochlea 31, wherein the untwisting Referring spiral duct are removed by the starch particles which are in the coolant, under the influence of centrifugal force toward the periphery of the snail discarded and outlet separated therefrom valve 35 are in port 34 selection coolant flow, saturated starch particles. Deposition of fine particles of starch is produced in the cyclone 15, where through sluices and a magnetic separator 17 product goes directly into the storage hopper 18 krahmalesoderzhascheyI fraction. Of cyclo-ia 13-dried weight through ishyuzovoy shutter and small precipitating cyclone dryer is guided through a magnetic separator 17 to 16 sieving, where separation is performed on the mass fraction of starch and potato flour. Accumulation starch fraction is produced in the storage hopper 18. Part fish meal is directed into the hopper 1 for dehumidifying the dense fraction and the other part in the hopper 19 for further enrichment of the protein. The cell juice from the filter press 7 is supplied into the container 20 and pumped through the heat exchanger 21 is fed to unit 22 and the coagulation separating the protein on the cell sap and nonproteinaceous suspension potato juice. Nonproteinaceous juice enters the apparatus 23 for fine fraction Detention coagulated protein passing through the filter mesh, and a protein slurry flows into the tank 24. To the deposition chamber 39 (FIGS. 4 and 5) nonproteinaceous potato juice thin section moves over the guide plates 40. Coagulated protein particles are deposited between the plates 40 in the chamber nizhnio and carried by the screw 41 into the container 24. Freed from protein juice is removed from the deposition chamber through a nozzle 44. protein suspension (f | Tg.1) pump from the tank 24 is supplied to the mixer formovatel granules 25, where from hopper 19 metered flows dry flour.In formovatele mixer 25 mixes the components, proiskhoditobogaschenie protein flour, the mixture is formed into granules and fed to a dryer 26 where the pellets are dried to a standard moisture. The finished product is stored in storage hopper 27. Nonproteinaceous juice after passing the cleaning device 23 is fed into the container 28, and then enters the evaporator unit 29 where a concentration uparivaets 50-60 percent and accumulated in vessel 30. / Line allows to produce potato processing to obtain such kinds of products, such as feed meal humidity 14 percent from protein and 15 percent, non-protein potato juice concentrate humidity 50-60 percent, starch product with a moisture content of starch 14X to 90-93 percent. The invention allows to reduce losses of potato solids in its processing and to improve the quality of the products obtained. The primary economic impact in the proposed line compared with known accomplished by reducing the losses and increasing the solids yield of the starch in the starch fraction of the product.

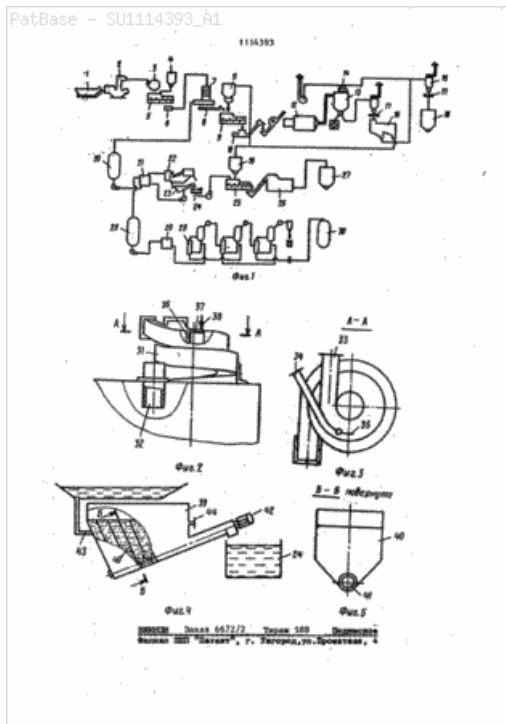
Classifications:**International (IPC 8-9):** A23K1/14 A23N7/00 (Advanced/Invention);

A23K1/14 (Advanced/Non-invention);

A23K1/14 A23N7/00 (Core/Invention);

A23K1/14 (Core/Non-invention)

International (IPC 1-7): A23K1/14 A23N7/00

**Family:**

Publication number	Publication date	Application number	Application date
SU1114393 A1	19840923	SU19833583028	19830422

Priority:

SU19833583028 19830422

Probable Assignee: TSNII MEKH ELEK SELSKOGO KHOZ

Assignee(s): (std): CENTRAL SCIENTIFIC AND RESEARCH INST FOR AGRICULTURE MECHANIZATION AND ELECTRIFICATION OF NON CHERNOZEM ZONE OF USSR ; INSTEX BOTAN ; INSTEX BOTAN IM V F KUPREVICHA ; PROIZV OB PROIZV PRODUKTOV IZ ; TSNII MEKH ELEK SELSKOGO KHOZ

Assignee(s): TSNII MEKH ELEK SELSKOGO KHOZYAJSTVA NECHERNOZEMNOJ ZONY SSSR ; INSTEX BOTANIKI IM V F KUPREVICHA ; N PROIZV OB PO PROIZV PRODUKTOV IZ KARTOFELYA

Inventor(s): (std): VECHER ALEKSANDR S ; SUBOCH FADEJ I ; SKACHKOV EVGENIJ N ; SHABETA MIKHAIL P ; SAVINYKH VLADIMIR N ; RESHETNIKOV VLADIMIR N ; PRIMAKOV NIKOLAJ S ; PAROMCHIK INESSA I ; MAJONOV VLADIMIR V ; IODO IVAN I ; DAVYDENKO IVAN A

Inventor(s): VECHER ALEKSANDR S SU ; SUBOCH FADEJ I SU ; SKACHKOV EVGENIJ N SU ; SHABETA MIKHAIL P SU ; SAVINYKH VLADIMIR N SU ; RESHETNIKOV VLADIMIR N SU ; PRIMAKOV NIKOLAJ S SU ; PAROMCHIK INESSA I SU ; MAJONOV VLADIMIR V SU ; IODO IVAN I SU ; DAVYDENKO IVAN A SU

39) Family number: 53572285 (US2014244051A)

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Title: DIRECT DRIVE FAN SYSTEM WITH VARIABLE PROCESS CONTROL

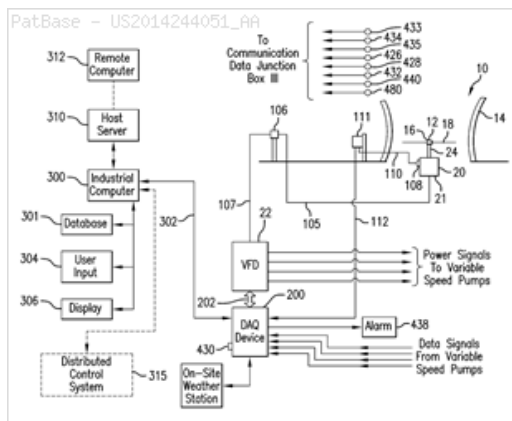
Abstract: The present invention is directed to a direct-drive fan system and a variable process control system for efficiently managing the operation of fans in a cooling system such as a wet-cooling tower or air-cooled heat exchanger (ACHE), HVAC systems, mechanical towers or chiller systems. The present invention is based on the integration of key features and characteristics such as tower thermal performance, fan speed and airflow, motor torque, fan pitch, fan speed, fan aerodynamic properties, and pump flow. The variable process control system processes feedback signals from multiple locations in order to control a high torque, variable speed, permanent magnet motor to drive the fan. Such feedback signals represent certain operating conditions including motor temperature, basin temperature, vibrations, and pump flow rates. Other data processed by the variable process control system in order to control the motor include turbine back pressure set-point, condenser temperature set-point and plant part-load setting. The variable process control system processes this data and the aforesaid feedback signals to optimize the operation of the cooling system in order to prevent disruption of the industrial process and prevent equipment (turbine) failure or trip. The variable process control system alerts the operators for the need to conduct maintenance actions to remedy deficient operating conditions such as condenser fouling. The variable process control system increases cooling for cracking crude and also adjusts the motor RPM, and hence the fan RPM, accordingly during plant part-load conditions in order to save energy.

Classifications:

International (IPC 8-9): B01F3/04 F04D19/00 F04D25/06 F04D27/00 F04D29/00 F04D29/051 F04D29/059 F28C1/00 F28F25/10 F28F27/00 G05D27/02 H02K7/14 (Advanced/Invention); F28C1/00 (Advanced/Non-invention)

CPC: G05D27/02 F28F27/003 F28F25/10 F04D29/059 F04D29/002 F04D19/005 F04D29/051 F04D25/166 F04D25/08 F28F27/00 F28B1/06 B01F3/04078 F04D19/002 F04D25/0606 F04D27/004 F05D2220/766 F05D2220/768 F05D2260/20 F05D2260/70 F05D2260/821 F05D2260/96 F05D2270/3011 F05D2270/306 F05D2270/44 F05D2270/71 F28C1/00 Y02B30/748 Y02T50/675 F28B9/00 Y02P80/156

US: 700/275 700/282



Family:

Publication number	Publication date	Application number	Application date
AU2012325745 AA	20130425	AU20120325745	20121021
AU2012325745 BB	20180726	AU20120325745	20121021
AU2018253487 AA	20181122	AU20180253487	20181023
CA2851821 AA	20140410	CA20122851821	20121021
EP2776771 A1	20140917	EP20120842083	20121021
EP2776771 A4	20150722	EP20120842083	20121021
JP2015502513 A2	20150122	JP20140537348	20121021
JP2015502513 T2	20150122	JP20140537348T	20121021
JP2018084407 A2	20180531	JP20170236012	20171208
JP6277364 B2	20180214	JP20140537348T	20121021
JP6397558 B2	20180926	JP20170236012	20171208
SG11201401228X A1	20140627	SG20141101228	20121021
US2014244051 AA	20140828	US20120352050	20121021
US2018058463 AA	20180301	US20120548545	20121021
US2018373280 AA	20181227	US20180040439	20180719
US10031535 BB	20180724	US20120352050	20121021
WO13059764 A1	20130425	WO2012US61244	20121021
WO14210583 A1	20141231	WO2014US44767	20140628

Priority:

US20110549872P	20111021	AU20120325745	20121021	US20120352050	20121021
JP20140537348T	20121021	WO2012US61244	20121021	WO2016US61244	20121021
US20120548545	20121021	US20130840615P	20130628	US20140352050	20140415
JP20170236012	20171208	US20180040439	20180719	AU20180253487	20181023

Probable Assignee: PRIME DATUM INC A CORP

Assignee(s): (std): PRIME DATUM DEV CO LLC ; PRIME DATUM INC ; PRIME DATUM INC A CORP ; ROLLINS PATRICK

Assignee(s): PRIME DATUM DEVELOPMENT CO LLC ; COSTELLO JOSEPH ; LUCAS GEORGE

Inventor(s): (std): COSTELLO JOSEPH ; GEORGE LUCAS ; LUCAS GEORGE ; LUCAS GEORGE M ; PATRICK ROLLINS ; JOSEPH COSTELLO ; ROLLINS PATRICK ; ROLLINS PATRICK M

Agent(s): PEGASUS IP; IP SOLVED ANZ PTY LTD; MACRAE AND CO; MACLACHLAN AND DONALDSON; RAYMOND A; NUZZO RAYMOND A

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

40) Family number: 23891288 (WO02073041A1)

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Title: PUMP UNIT FOR RAINWATER RECYCLING SYSTEMS

Abstract: The invention relates to a pump unit for rainwater recycling systems. Said unit comprises a housing that surrounds a pump, a drinking water storage device and conduit means and/or control means as functional elements. According to the invention, the housing has at least one moulded body consisting of a foamed plastic, the moulded body has recesses, into which the functional elements are inserted and the functional elements are interconnected via the electric conduction means or the via the conduit means.

Classifications:

International (IPC 8-9): F04D29/58 F04D29/66

F04D29/70 (Advanced/Invention);

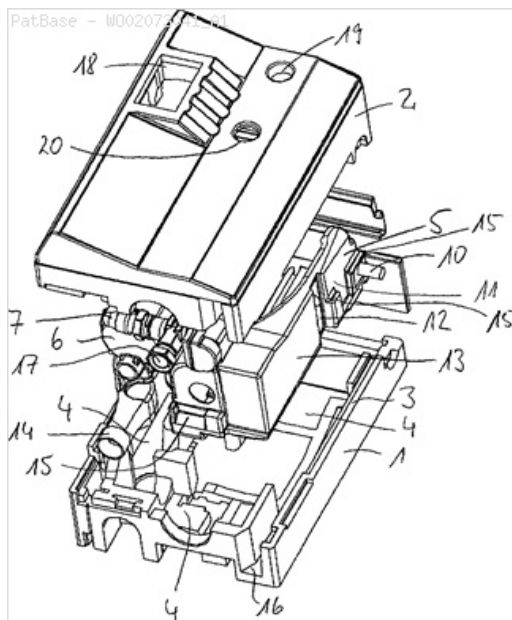
F04D29/00 F04D29/58 F04D29/66 (Core/Invention)

International (IPC 1-7): E03B3/03 F04B53/00 F04D29/58 F04D29/66

F04D29/70

CPC: F04D29/5893 F04D29/669 F04D29/708

European: F04D29/58P6 F04D29/66P F04D29/70P



Family:

Publication number	Publication date	Application number	Application date
AT377153 E	20071115	AT20020704651T	20020114
DE10112626 A1	20020919	DE20011012626	20010314
DE50211140 D1	20071213	DE20025011140	20020114
EP1399680 A1	20040324	EP20020704651	20020114
EP1399680 B1	20071031	EP20020704651	20020114
WO02073041 A1	20020919	WO2002EP00265	20020114

Priority:

DE20011012626 20010314 DE20025011140 20020114 WO2002EP00265 20020114

Probable Assignee: GEP UMWELTECHNIK GMBH

Assignee(s): (std): EHLERT ULRICH ; GEP UMWELTECHNIK GMBH

Inventor(s): (std): EHLERT ULRICH

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

41) Family number: 53652290 (US2013105050A)

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Title: ALL SEASON SAFETY TIRE

Abstract: A vehicle tire includes a selectively actuated stud deployment system for increased traction. The studs are contained in cells in the surface of the tire and forced to deploy by pneumatic or fluid pressure. When the pressure is released, the studs retract.

Classifications:

International (IPC 8-9): B29D30/06 B29D30/66 B60C11/00

B60C11/14 B60C11/16 B60C13/00 B60C23/00 B60C23/04

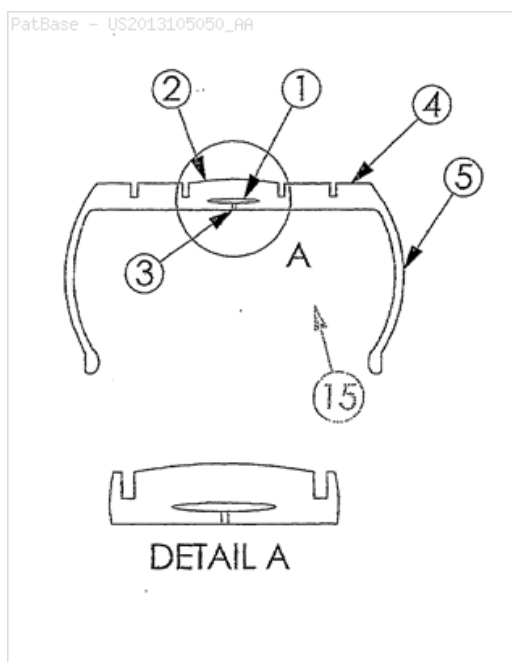
B60C23/12 (Advanced/Invention)

CPC: B60C23/12 B29D30/66 B29D2030/662 B60C11/1612

Y10T152/10279 B60C23/004 B60C23/0408 B60C13/00 B29D30/0681

B60C11/1637 B60C11/00

US: 1/1 152/208 152/210 152/419



Family:

Publication number	Publication date	Application number	Application date
US2013105050 AA	20130502	US20120663918	20121030

US2014116592 AA	20140501	US20130971598	20130820
US2016167445 AA	20160616	US20160012588	20160201
US2016200152 AA	20160714	US20160046148	20160217
US9278584 BB	20160308	US20130971598	20130820
US9290057 BB	20160322	US20120663918	20121030

Priority:

US20110628386P 20111031 US20120663918 20121030 US20130971598 20130820
US20160012588 20160201 US20160046148 20160217

Probable Assignee: INNOVATIVE TECHNOLOGIES LLC

Assignee(s): (std): BUSHNELL RAYMOND B ; INNOVATIVE TECHNOLOGIES LLC ; LARSON BRADLEY K S

Assignee(s): KJL INVESTMENTS LLC

Inventor(s): (std): BUSHNELL RAYMOND B ; LARSON BRADLEY K S

Inventor(s): LARSON BRADLEY KS

Agent(s): KLARQUIST SPARKMAN LLP

42) Family number: 4503293 (ES2000451A)

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Title: FUEL SYSTEM FOR IC-ENGINE

Abstract: The fuel system for an ic-engine (27) has a fuel control unit (14) for premixing liquid fuel with a part of the total air charge. There is a spary nozzle (43) through which the mixed air and fuel is passed. A heater (48) preheats the mixed air and fuel from the nozzle to produce a gas. The heater can be a heat exchanger surrounding part of the exhaust manifold. - A conduit (49) conveys the gas to the inlet manifold (31) of the engine where it is mixed with the remainder of the air charge. The fuel quantity is controlled by a needle valve. (2/5) EPAB- EP-228468 B A fuel system for an internal combustion spark ignition engine (27) having an inlet manifold (31,103) and an exhaust manifold (26), the fuel system including means (32,35,36,37;104,106,108) for conveyi conveying a charge of air to the inlet manifold (31,103), a fuel supply nozzle (43,117), a liquid fuel metering and regulating means (41,100,24) for supplying a metered quantity of liquid fuel to the fuel supply nozzle (43,117), a heat exchanger (48,102) which in use is heated by exhaust gases from the exhaust manifold (26) for heating the fuel supplied through the fuel supply nozzle (43,117) and means (49,118) for conveying the heated fuel to the inlet manifold (31,103) wehre it where it mixes with said charge of air, said liquid fuel metering and regulating means (41,100,24) in use, supplying metered fuel at a regulated pressure, characterised in that the liquid fuel metering and regulating means (41,100,24) has a fuel exit through which the metered fuel at a regulated pressure exits, said fuel exit being upstream of the fuel supply nozzle (43,117) and in communication with a chamber which in use is at a perssure which is not influenced by the pressure in the inlet manifold (31,103); and that the fuel supply nozzle (43,117) comprises a venturi-type spray nozzle (43, 117) having an inlet end in communication with said chamber so as to receive said metered and regulated liquid fuel from said fuel exit and a part of said air charge, or said metered and regulated liquid fuel from said fuel exit, and ambient air and having a discharge end located externally of said chamber and arranged to spray atomised fuel directly onto a heated surface of said heat exchanger (48,102). (11pp) USAB- US4893604 A The fuel system is provided with a unit (14) for pre-mixing liq. fuel with a part of the total air charge. A spray nozzle (43) has mixed air/fuel passed through it. - A heat exchanger (48) heats the mixed air/fuel issuing from the spray nozzle to produce a gas. A conduit (49) for conveying the gas to an inlet manifold (31) where it mixes with the remainder of the air charge.

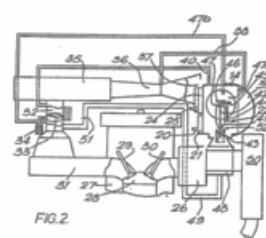
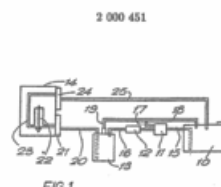
Classifications:

International (ipc 8-9): F02M31/04 F02M71/00 (Advanced/Invention);
F02M31/02 F02M71/00 (Core/Invention)

International (ipc 1-7): F02M31/04 F02M71/00

CPC: Y02T10/32

PatBase - ES2000451_RF



Family:

Publication number	Publication date	Application number	Application date
ES2000451 AF	19880301	ES19860000114	19860703

Priority:

ES19860000114 19860703

Probable Assignee: KEEWEST DEV LTD

Assignee(s): (std): KEEWEST DEV LTD

Assignee(s): KEEWEST DEVELOPMENTS LIMITED ; KEEWEST DEVELOPMENTS LTD

Inventor(s): (std): WEST GEOFFREY WARD

Title: PHARMACEUTICAL COMPOSITION

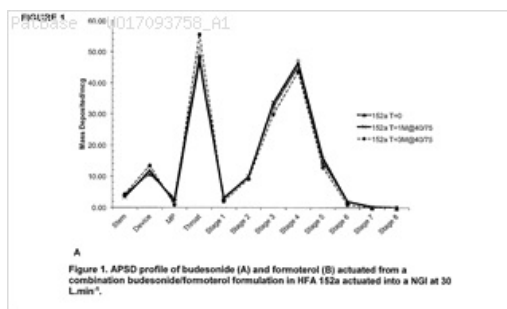
Abstract: A pharmaceutical composition is described. The composition comprises: (i) at least one formoterol compound selected from formoterol, pharmaceutically acceptable salts of formoterol, prodrugs of formoterol, solvates of formoterol, solvates of pharmaceutically acceptable salts of formoterol and solvates of prodrugs of formoterol; (ii) at least one corticosteroid; (iii) a surfactant component comprising at least one surfactant compound; and (iv) a propellant component comprising 1,1 - difluoroethane (R-152a).

Classifications:

International (IPC 8-9): A61K31/167 A61K31/56 A61K31/573 A61K31/58 A61K47/06 A61K47/10 A61K47/12 A61K47/24 A61K47/32 A61K9/00 A61K9/08 A61K9/10 A61K9/12 A61K9/72 A61M11/00 A61P11/00 A61P11/06 A61P11/08 A61P43/00 C07C215/76 (Advanced/Invention)

International (IPC 1-7): A61K31/167 A61K31/56 A61K31/573 A61K31/58 A61K9/00

CPC: A61K9/008 A61K9/0073 A61K9/0078 A61K31/56 A61K31/573 A61K31/58 C07C215/76 A61K31/167 A61K47/06



Family:

Publication number	Publication date	Application number	Application date
AU2016364650 AA	20180621	AU20160364650	20161202
AU2016364650 AA	20170608	AU20160364650	20161202
BR112018011266 A2	20181121	BR20181111266	20161202
CA3007050 AA	20180531	CA20163007050	20161202
CN108289843 A	20180717	CN201680071126	20161202
EP3383366 A1	20181010	EP20160822716	20161202
GB201521456 A0	20160120	GB20150021456	20151204
GB201615916 A0	20161102	GB20160015916	20160919
GB2554092 A1	20180328	GB20160015916	20160919
IN201827024717 A	20181005	IN201827024717	20180703
JP2019500340 T2	20190110	JP20180528946T	20161202
MX2018006800 A1	20181109	MX20180006800	20161202
WO17093758 A1	20170608	WO2016GB53812	20161202

Priority:

GB20150021456 20151204 GB20160015916 20160919 WO2016GB53812 20161202

Probable Assignee: MEXICHEM FLUOR DE CV SA

Assignee(s): (std): MEXICHEM FLUOR DE CV SA ; MEXICHEM FLUOR S A DE C V ; MEXICHEM UK LTD

Assignee(s): NOAKES TIMOTHY JAMES ; MEXICHEM FLUOR SADE CV ; CORR STUART

Inventor(s): (std): CORR STUART ; NOAKES TIMOTHY JAMES ; TIMOTHY JAMES NOAKES ; STUART CORR

Agent(s): PHILLIPS ORMONDE FITZPATRICK; BERESKIN AND PARR LLP SENCRL SRL; POTTER CLARKSON LLP; DEE IAN MARK

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 DJ 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 KW 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

Title: UNIT INCLUDING A HEAT EXCHANGER AND SHUTTERS, HEAT PUMP COMPRISING SUCH A UNIT AND METHOD FOR CONTROLLING SUCH A HEAT PUMP

Abstract: The invention relates to a unit including an external heat exchanger (3) and controlled mobile shutters (12) for a heat pump (1) intended for heating the passenger compartment of an automobile, said external exchanger (3) being suitable for being installed on the front surface of an automobile in order enable the passage of air (A) from outside the vehicle, the shutters (12) being movable between an open state which enables air (A) from the outside to pass through the external exchanger (3) such as to enable a heat exchange between said outside air (A) and a heat-transfer fluid flowing through the external exchanger (3), and a closed state in which the shutters are capable of blocking the passage of outside air (A) through the heat exchanger (3). The invention also relates to a heat pump comprising such a unit and a method for controlling such a heat pump. The invention can be implemented, in particular, in electric or hybrid vehicles as well as in other automobiles.

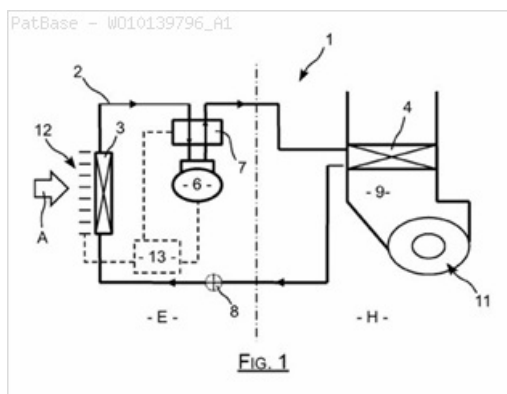
Classifications:

International (IPC 8-9): B60H1/00 B60H1/22 B60H1/32 F24F12/00 F24F5/00 F25B13/00 F28D20/02 (Advanced/Invention)

CPC: B60H1/00492 B60H1/00899 B60H2001/00928 B60H2001/00949

European: B60H1/00R B60H1/00Y6B3 L60H1/00Y6B93

L60H1/00Y6B96



Family:

Publication number	Publication date	Application number	Application date
CN102001271 A	20110406	CN201010510745	20100607
CN102001271 B	20150722	CN201010510745	20100607
DE602010010782 D1	20131212	DE201060010782T	20100601
DE602010018874 D1	20141023	DE201060018874T	20100604
EP2263894 A1	20101222	EP20100164545	20100601
EP2263894 B1	20131009	EP20100164545	20100601
EP2437953 A1	20120411	EP20100724775	20100604
EP2437953 B1	20140910	EP20100724775	20100604
FR2946415 A1	20101210	FR20090002740	20090605
FR2946415 B1	20131227	FR20090002740	20090605
FR2946416 A1	20101210	FR20090004649	20090929
FR2946416 B1	20120914	FR20090004649	20090929
JP2010280377 A2	20101216	JP20100128524	20100604
JP5599654 B2	20141001	JP20100128524	20100604
WO10139796 A1	20101209	WO2010EP57855	20100604

Priority:

FR20090002740 20090605 FR20090004649 20090929 EP20100164545 20100601
EP20100724775 20100604 WO2010EP57855 20100604

Probable Assignee: VALEO SYSTEMES THERMIQUES**Assignee(s):** (std): THUEZ JEAN LUC ; VACCA FREDERIC ; VALEO SYSTEMES THERMIQUES**Inventor(s):** (std): NEVEU DANIEL ; THUEZ JEAN LUC ; VACCA FREDERIC ; YAHIA MOHAMED ; CARTON THOMAS ; THOMAS CARTON ; MOHAMED YAHIA ; JEAN LUC THUEZ ; DANIEL NEVEU**Inventor(s):** CARTON THOMAS 78310 ; NEVEU DANIEL 91300 ; FREDERIC VACCA ; YAHIA MOHAMED 75005 ; THUEZ JEAN LUC 78112**Agent(s):** METZ GAELE; VALEO SYSTEMES THERMIQUES; MORI HIROYUKI; ROLLAND JEAN CHRISTOPHE 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**45) Family number: 28074313 (US2006292224A)**

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Title: PHARMACEUTICAL COMPOSITION

Abstract: This invention relates to pharmaceutical formulations comprising particles with a substantially non-hygroscopic inner crystalline core and an outer coating comprising at least one bioactive molecule. The invention also relates to methods of forming particles comprising a substantially non-hygroscopic inner crystalline core and an outer coating comprising at least one bioactive molecule.

Classifications:

International (IPC 8-9): A61K38/00 A61K38/21 A61K38/28 A61K38/38 A61K38/54 A61K39/02 A61K39/05 A61K39/08 A61K39/12 A61K39/145 A61K39/205 A61K39/21 A61K39/29 A61K39/395 A61K45/00 A61K47/04 A61K47/18 A61K47/20 A61K47/22 A61K47/26 A61K47/42 A61K48/00 A61K6/00 A61K9/14 A61K9/16 A61K9/72 A61P1/16 A61P3/10 A61P3/12 A61P3/16 A61P3/18 A61P35/00 B01D11/00 B01D9/02 B01F3/08 B01F5/00 B29B9/00 (Advanced/Invention); A61K38/00 A61K39/00 (Advanced/Non-invention); A61K38/21 A61K38/28 A61K38/38 A61K38/43 A61K39/02 A61K39/05 A61K39/08 A61K39/12 A61K45/00 A61K47/16 A61K47/20 A61K47/22 A61K48/00 A61K6/00 A61K9/14 A61K9/16 A61K9/72 A61P1/00 A61P3/00 A61P31/00 A61P35/00 B01D11/00 B01D9/00 B01F3/08 B01F5/00 B29B9/00 (Core/Invention); A61K38/00 (Core/Non-invention); A61K (Subclass/Invention)

International (IPC 1-7): A61K A61K6/00 A61K9/16**CPC:** A61K9/1682 A61K9/145 A61K9/1617 A61K39/05

A61K2039/55555 A61K9/1623 A61K38/28 Y02A50/466

European: A61K38/28 A61K39/05 A61K9/14H4 A61K9/16H4

A61K9/16H4B A61K9/16P K61K38/00 K61K39/555B5

US: 264/5 264/5S 424/204.1 424/204.100S 424/234.1 424/234.100S 424/489 424/489P 424/491 424/85.4 424/85.400S 514/12 514/12.2 514/12.200S 514/15.2 514/15.200S 514/17.5 514/17.500S 514/19.3 514/19.300S 514/2.4 514/2.400S 514/20.3 514/20.300S 514/3 514/3.3 514/3.300S 514/3.8 514/3.800S 514/4.3 514/4.300S 514/44 514/44.00AS 514/44A 514/5.9 514/5.900S

PatBase - US2006292224_AA

Patent Application Publication Dec. 28, 2006 Sheet 1 of 22 US 2006/0292224 A1

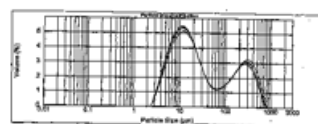


Figure 1: Mw of poly(lactide) as a function of particle size

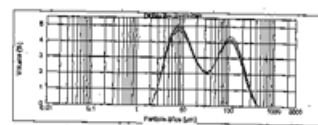


Figure 2: Mw of poly(lactide) as a function of particle size

Family:

Publication number	Publication date	Application number	Application date
CA2552266 AA	20060629	CA20042552266	20040109
CA2552266 C	20121002	CA20042552266	20040109
CN1758900 A	20060412	CN200480006519	20040109
CN1758900 B	20120208	CN200480006519	20040109
DE602004042655 D1	20130905	DE200460042655T	20040109
DK1587478 T3	20131021	DK20040701047T	20040109
EP1587478 A2	20051026	EP20040701047	20040109
EP1587478 B1	20130710	EP20040701047	20040109

GB200300427 A0	20030205	GB20030000427	20030109
IN01850CN2005 A	20070831	IN2005CN01850	20050808
IN228849 B	20090320	IN2005CN01850	20050808
JP2006517531 T2	20060727	JP20060500184T	20040109
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JP5560244 B2	20140723	JP20110169786	20110803
US2006292224 AA	20061228	US20040541786	20040109
US2017014345 AA	20170119	US20150977828	20151222
US2018008542 AA	20180111	US20170612628	20170602
WO04062560 A2	20040729	WO2004GB00044	20040109
WO04062560 A3	20041028	WO2004GB00044	20040109

Priority:

GB20030000427 20030109 EP20040701047 20040109 JP20060500184 20040109
US20040541786 20040109 WO2004GB00044 20040109 US20060541786 20060829
US20150977828 20151222 US20170612628 20170602

Probable Assignee: COURT OF OF GLASGOW UNIV

Assignee(s): (std): FLORES MARIA V ; FLORES MARIA VICTORIA ; KREINER MICHAELA M ; KREINER MICHAELA MARIA ; MOORE BARRY D ; MOORE BARRY DOUGLAS ; UNIV STRATHCLYDE ; UNIV GLASGOW ; PARKER MARIE CLAIRE ; PARTRIDGE JOHANN ; STEVENS HOWARD NORMAN ERNEST ; ROSS ALISTAIR ; STEVEN HOWARD N E ; PARKER MARIE C ; UNIV COURT OF UNIV OF GLASGOW ; VOS JAN

Assignee(s): UNIVERSITY OF STRATHCLYDE THE ; UNIV OF STRATHCLYDE ; UNIV OF GLASGOW ; COURT OF OF GLASGOW UNIV ; COURT OF UNIV ; UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW THE ; STRATHCLYDE UNIV ; OF STRATHCLYDE UNIV ; UNIVERSITY OF STRATHCLYDE ; UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW

Inventor(s): (std): FLORES MARIA V ; KREINER MICHAELA M ; MOORE BARRY D ; PARKER MARIE C ; STEVEN HOWARD N E ; VOS JAN ; STEVENS HOWARD NORMAN ERNEST ; ROSS ALISTAIR ; PARTRIDGE JOHANN ; PARKER MARIE CLAIRE ; MOORE BARRY DOUGLAS ; KREINER MICHAELA MARIA ; HOW MOORE BARRY DOUGLAS PARKER ; FLORES MARIA VICTORIA

Inventor(s): MOORE BARRY DOUGLAS PARKER MARIE CLAIRE... ; MOORE BARRY DOUGLAS PARKER MARIE CLAIRE PARTRIDGEJ ; MOORE BARRY DOUGLAS CROSSHILL ; PARKER MARIE CLAIRE CROSSHILL ; FLORES MARIA ; PARTRIDGE JOHANN JORDANHILL ; STEVEN HOWARD NE ; STEVEN HOWARD NORMAN ERNEST ; STEVEN HOWARD ; MOORE BARRY DOUGLAS PARKER MARIE CLAIRE PARTRIDGEJOHANN VOS JAN KREINER MICHAELA MARIA STEVENS HOWARD NORMAN ERNEST FLORES MARIA VICTORIA ROSS ALISTAIR ; PARKER MARIE ; MOORE BARRY ; KREINER MICHAELA

Agent(s): GASTLE AND ASSOCIATES; PATENTANWALTSKANZLEI MEYER; WILSON GARY; ALSTON AND BIRD LLP

Designated states: 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

46) Family number: 18373331 (US4268247A)

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Title: Method for drying fabrics

Abstract: To dry wet fabrics, a hot drying gas is introduced into a drying chamber containing the fabrics. The drying chamber is maintained at a sufficiently high pressure greater than atmospheric pressure so that a portion of the gas in the drying chamber can be discharged directly to the atmosphere. The remainder of the gas in the drying chamber is withdrawn, and at least a portion of the withdrawn gas is used to produce the hot drying gas introduced into the drying chamber. This is effected by increasing the pressure of the withdrawn gas, heating the withdrawn gas, and combining it with a dilution gas. The amount of the dilution gas which is combined with the withdrawn gas comprises from about 5 to about 20 percent by volume of the hot drying gas introduced into the drying chamber. Before the withdrawn gas is heated, preferably it is filtered by a lint screen for removal of lint and other contaminants. Novel lint screens capable of self-cleaning during a cooling mode of operation are described.

Classifications:

International (ipc 8-9): D06F58/02 D06F58/22 D06F58/26 F26B3/04 F26B3/06 (Advanced/Invention); D06F58/02 D06F58/20 F26B3/02 (Core/Invention)

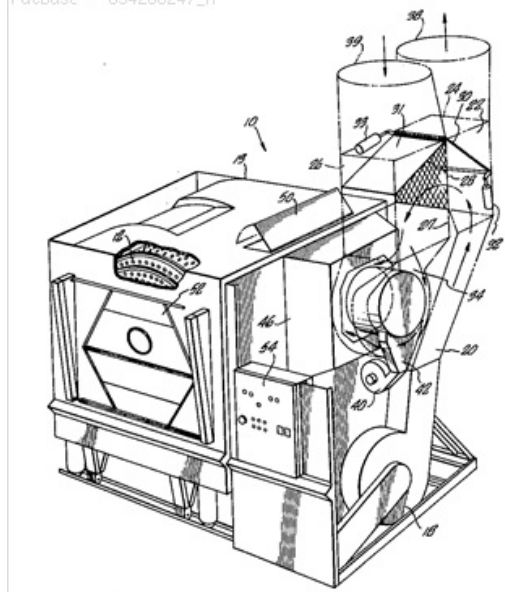
International (ipc 1-7): D06F58/00 F26B11/02 F26B11/04 F26B21/00 F26B21/04 F26B3/00 F26B3/04 F26B3/06 F26B5/04

CPC: D06F58/02 D06F58/22 D06F58/26

European: D06F58/02 D06F58/22 D06F58/26

US: 34/413 34/77 432/105 432/21 432/72

PatBase - US4268247_A



Family:

Publication number	Publication date	Application number	Application date
CA1137300 A1	19821214	CA19800351798	19800513

CA1158856 A1	19831220	CA19820413596	19821015
CA1158856 A2	19831220	CA19820413596	19821015
DE3019814 A1	19801127	DE19803019814	19800523
DE8014004 U1	19810312	DE19800014004U	19800523
FR2457458 A1	19801219	FR19800011700	19800527
FR2457458 B1	19850719	FR19800011700	19800527
GB2052707 A1	19810128	GB19800016572	19800520
GB2052707 B2	19831026	GB19800016572	19800520
JP55165474 A2	19801223	JP19800068798	19800523
US4268247 A	19810519	US19790042134	19790524

Priority:

US19790042134 19790524 CA19800351798 19800513 CA19820413596 19821015

Probable Assignee: CHALLENGE COOK BROS INC

Assignee(s): (std): CHALLENGE COOK BROS INC ; CHIYARENJI KITSUKU BURAZAASU INC

Assignee(s): FREZE BENJAMIN H ; WHITE CONSOLIDATED IND ; CHALLENGE COOK BROS INC IND CALIF US ; CHALLENGE IND ; CHALLENGE COOK BROS

Inventor(s): (std): BENJIYAMIN EICHI FURIIZE ; FREZE BENJAMIN H

Inventor(s): H FREZE BENJAMIN ; BENJAMIN H FREZE

Agent(s): SMART AND BIGGAR

47) Family number: 61691361 (US2018264007A)

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Title: PHARMACEUTICAL COMPOSITION

Abstract: A pharmaceutical composition is described. The composition comprises at least one mometasone compound selected from mometasone, pharmaceutically acceptable salts of mometasone, prodrugs of mometasone, solvates of mometasone, solvates of pharmaceutically acceptable salts of mometasone and solvates of prodrugs of mometasone and a propellant component comprising 1,1-difluoroethane (R-152a). In a preferred embodiment, the composition further comprises at least one formoterol compound selected from formoterol, pharmaceutically acceptable salts of formoterol, prodrugs of formoterol, solvates of formoterol, solvates of pharmaceutically acceptable salts of formoterol and solvates of prodrugs of formoterol.

Classifications:

International (IPC 8-9): A61K31/165 A61K31/167 A61K31/57 A61K31/573 A61K31/58 A61K47/06 A61K47/10 A61K47/12 A61K47/24 A61K47/32 A61K47/54 A61K9/00 A61K9/10 A61K9/12 A61K9/72 A61M11/00 A61P11/00 A61P11/06 A61P43/00 A61P5/44 (Advanced/Invention)

International (IPC 1-7): A61K31/58 A61K9/00

CPC: A61K47/06 A61K31/165 A61K31/57 A61K47/542 A61K47/10 A61P11/00 A61K47/24 A61K2300/00 A61K31/58 A61K9/008 A61K31/167

Family:

Publication number	Publication date	Application number	Application date
AU2016364005 AA	20180621	AU20160364005	20161202
AU2016364005 AA	20170608	AU20160364005	20161202
BR112018011269 A2	20181121	BR20181111269	20161202
CA3007046 AA	20180531	CA20163007046	20161202
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IN201827024548 A	20190215	IN201827024548	20180702
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MX2018006799 A1	20181109	MX20180006799	20161202
US2018264007 AA	20180920	US20160781060	20161202
WO17093755 A1	20170608	WO2016GB53804	20161202

Priority:

GB20150021462 20151204 WO2016GB53804 20161202

Probable Assignee: MEXICHEM FLUOR DE CV SA

Assignee(s): (std): MEXICHEM FLUOR DE CV SA ; MEXICHEM FLUOR S A DE C V ; MEXICHEM UK LTD

Assignee(s): NOAKES TIMOTHY JAMES ; MEXICHEM FLUOR SADE CV ; CORR STUART

Inventor(s): (std): CORR STUART ; NOAKES TIMOTHY JAMES ; STUART CORR ; TIMOTHY JAMES NOAKES

Agent(s): PHILLIPS ORMONDE FITZPATRICK; BERESKIN AND PARR LLP SENCRL SRL; POTTER CLARKSON LLP; DEE IAN MARK

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 DJ 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 KW 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

48) Family number: 60886364 (WO13096718A2)

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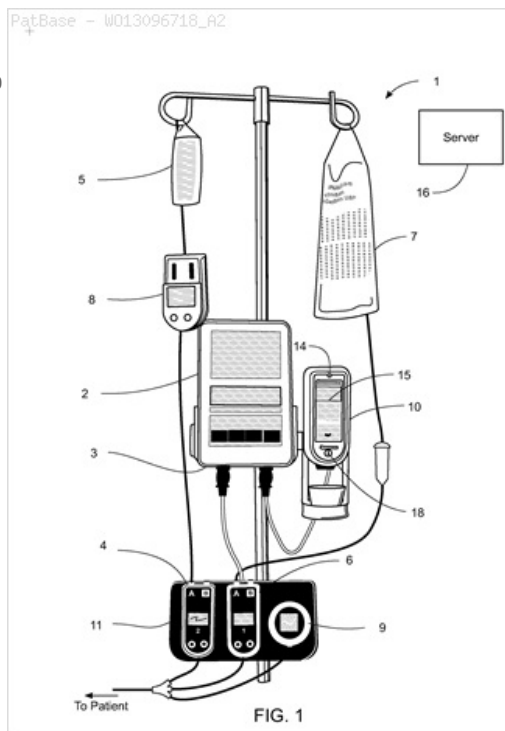
Title: SYSTEM, METHOD, AND APPARATUS FOR DISPENSING ORAL MEDICATIONS

Abstract: A pill dispenser includes a housing, a pill-dispensing mechanism, a receptacle, a pill-viewing camera, an identifying camera, one or more processor, and a storage medium (e.g., a memory). The pill-dispensing mechanism is coupled an opening of the housing. The first pill-viewing camera is positioned to capture an image of the receptacle, and the identifying camera is positioned to capture an image of an area adjacent to the housing. The one or more processors are in operative communication with the pill-dispensing mechanism, the pill-viewing camera, and the identifying camera. The storage medium stores processor executable instructions for: instructing the pill-dispensing mechanism to dispense a pill;

instructing the pill-viewing camera to capture a first image of the pill to determine a presence of the pill; instructing the pill-viewing camera to capture a second image to determine an absence of the pill; and instructing the identifying camera to capture a third image.

Classifications:

International (IPC 8-9): A61J3/00 A61J7/00 A61J7/02 A61M1/28 A61M5/142 A61M5/145 A61M5/148 A61M5/168 F04B43/12 G01B11/02 G01F15/02 G01F22/00 G06F19/00 G06F19/28 G06Q10/00 G08B23/00 (Advanced/Invention)
CPC: A61M5/14216 A61J3/002 A61M5/1452 A61M5/16809 A61M5/1684 A61M2205/18 A61M2205/3306 A61M2205/3375 A61M5/1689 G01B11/026 F04C2270/041 G01F22/00 G01F15/028



Family:

Publication number	Publication date	Application number	Application date
AU2017200170 AA	20170202	AU20170200170	20170111
AU2017200170 BB	20171116	AU20170200170	20170111
EP2793796 A2	20141029	EP20120826588	20121221
JP2015505259 T2	20150219	JP20140548932T	20121221
JP2017020508 A2	20170126	JP20160161815	20160822
JP5894680 B2	20160330	JP20140548932T	20121221
JP6306108 B2	20180404	JP20160161815	20160822
MX2014007750 A1	20141208	MX20140007750	20121221
MX358317 B	20180814	MX20140007750	20121221
WO13096718 A2	20130627	WO2012US71131	20121221
WO13096718 A3	20130815	WO2012US71131	20121221

Priority:

US20110333574	20111221	US20110578649P	20111221	US20110578674P	20111221
US20110578658P	20111221	WO2011US66588	20111221	US20120651322P	20120524
US20120679117P	20120803	AU20120358221	20121221	JP20140548986T	20121221
WO2012US71131	20121221	WO2012US71490	20121221	JP20160161815	20160822
AU20170200170	20170111				

Probable Assignee: DEKA PRODUCTS LP

Assignee(s): (std): DEKA PRODUCTS LP

Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s): (std): BOB D PERET ; BRIAN D TRACEY ; BRIAN H YOO ; COLIN H MURPHY ; COLLINS DAVID E ; DAVID BLUMBERG JR ; DAVID D B CANNAN ; DEMERS JASON A ; DEREK G KANE ; FARLOW JARED N ; GREGORY R LANIER JR ; JACOB W SCARPACI ; JOHN M KERWIN ; KAMEN DEAN ; KERWIN JOHN M ; KEVIN A DURAND ; LANGENFELD CHRISTOPHER C ; LARRY B GRAY ; MARC A MANDRO ; MICHAEL J SLATE ; MICHAEL S PLACE ; MURPHY COLIN H ; PERRY N CHRISTOPHER ; PLACE MICHAEL S ; RICHARD J LANIGAN ; RIVINIUS GREGG W ; RUSSELL H BEAVIS ; SABIN ERIK N ; SLATE MICHAEL J ; SMITH STANLEY B III ; THERRIEN ALEXANDER R ; TURNER JAMES G ; ZASLOW BENJAMIN ; ZOBRO JONATHAN ; GRAY LARRY B

Agent(s): GRIFFITH HACK ; CHAPMAN PATRICK ; YAMASAKI YUKUZO ; AKAMATSU TOSHIAKI ; WYNINEGAR JAMES D JR

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 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 NZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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

49) Family number: 31846369 (US2005139552A)

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Title: PORTABLE, POTABLE WATER RECOVERY AND DISPENSING APPARATUS

Abstract: A portable, potable-water generator for producing high-purity liquid water by condensation of water vapor from ambient air. The generator (125) employs an air filter (119) to remove particulates and aerosols from the incoming air. An enclosed heat absorber cools the filtered air to its dew point and collects droplets of condensate into a condensate collector (5). Before discharge, the collected dew is treated in a bacteriostat loop to destroy adventitious living organisms and to filter out undesirable and dangerous contaminants. A recirculation loop provides the ability to recirculate stored condensate, including during periods of inactivity. Further, quick disconnect fittings (55 b) and variable length flexible tubing allows use of the invention to serve remote dispensers and/or appliances and allow use of municipal water treated through the apparatus

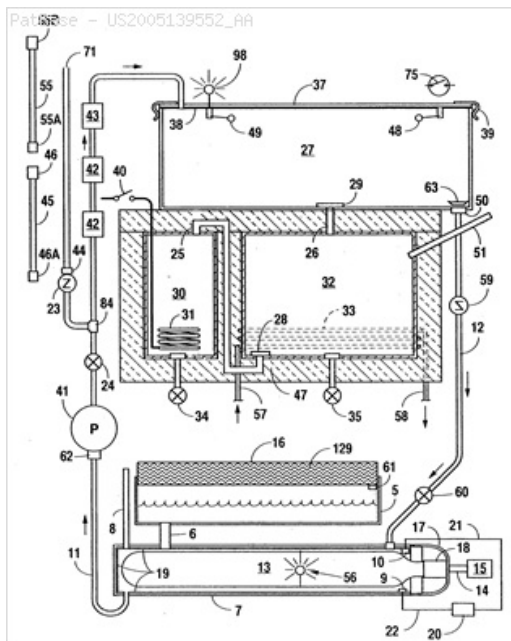
in low condensate situations.

Classifications:

International (IPC 8-9): B01D61/02 B67D5/62 B67D7/80 C02F1/04 C02F1/18 C02F1/28 C02F1/32 C02F1/44 C02F1/68 C02F1/78 C02F9/00 C02F9/08 E03B11/02 E03B3/28 E03B7/07 F24F1/02 F24F1/0358 F24F1/22 F25B21/02 F25D F25D11/00 F25D17/04 F25D17/06 F25D21/00 F25D21/14 F25D23/00 F25J3/00 (Advanced/Invention); C02F1/04 C02F1/28 C02F1/32 C02F1/44 F25D11/00 F25D17/06 (Advanced/Non-invention); F25D11/00 F25D17/06 (Core/Invention)

International (IPC 1-7): B01D61/02 C02F1/04 C02F1/18 C02F1/28 C02F1/32 C02F1/44 C02F1/48 C02F1/68 C02F1/78 C02F9/00 E03B11/02 E03B3/28 E03B7/07 F25D11/00 F25D17/06 F25D23/00 **CP:** C02F1/001 C02F1/008 C02F1/441 C02F1/78 C02F2201/008 F25C1/00 B01D5/0003 B01D5/0072 B01D5/0075 C02F1/283 C02F1/32 C02F1/44 C02F1/68 C02F2101/20 C02F2101/30 C02F2201/3225 C02F2201/3228 C02F2209/005 C02F2209/40 C02F2209/42 C02F2209/44 C02F2301/046 F24F1/027 E03B3/28 Y02A20/109 Y02A20/214 C02F9/005 F24F1/022 F24F1/04 **European:** B01D5/00B B01D5/00H14 B01D5/00H16 C02F9/00B E03B3/28 F24F1/02B1 F24F1/02B3 M02F1/00D M02F1/00T M02F1/28D M02F1/32 M02F1/44 M02F1/44B M02F1/68 M02F1/78 M02F101/20 M02F101/30 M02F201/00M M02F201/322H M02F201/322R M02F209/00T M02F209/40 M02F209/42 M02F209/44 M02F301/04D R25C1/00

US: 210/748 62/264 62/264S 62/272 62/285 62/285P 62/288 62/288P 62/291 62/291S 62/3.4 62/3.400S 62/317 62/317S 62/389 62/389S 62/635 62/635P 62/93



Family:

Publication number	Publication date	Application number	Application date
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AU2002244146 BB	20041118	AU20020244146	20020225
AU2002244146 CA	20050811	AU20020244146	20020225
AU2005200750 AA	20050310	AU20050200750	20050218
AU2005200750 BB	20060601	AU20050200750	20050218
BRPI0215617 A	20041207	BR2002PI15617	20020225
BRPI0215617 B1	20110503	BR2002PI15617	20020225
CA2477276 AA	20040824	CA20022477276	20020225
CA2477276 C	20080513	CA20022477276	20020225
CA2614643 AA	20030904	CA20022614643	20020225
CA2614643 C	20091117	CA20022614643	20020225
CN100385186 C	20080430	CN20028028308	20020225
CN1620584 A	20050525	CN20028028308	20020225
DE60229168 D1	20081113	DE20026029168	20020225
EG23612 A	20061112	EG20040000075	20040822
EP1478891 A1	20041124	EP20020709675	20020225
EP1478891 A4	20050629	EP20020709675	20020225
EP1478891 B1	20081001	EP20020709675	20020225
HK1071190 A1	20050708	HK20050101125	20050212
HK1071190 A3	20050708	HK20050101125	20050212
IL163451 A1	20100429	IL20020163451	20020225
IN02607DN2004 A	20090403	IN2004DN02607	20040906
IN241216 B	20100702	IN2004DN02607	20040906
JP2005518488 T2	20050623	JP20030571671T	20020225
KR100626242 B1	20060921	KR20047013165	20020225
KR20040082444 A	20040924	KR20047013165	20020225
MXPA04008147 A1	20050620	MX2004PA08147	20020225
NZ534775 A	20060728	NZ20020534775	20020225
US2005139552 AA	20050630	US20020505535	20020225
US2007039345 AA	20070222	US20060464132	20060811
US2008245092 AA	20081009	US20080124053	20080520
US7089763 BB	20060815	US20020505535	20020225
US7373787 BB	20080520	US20060464132	20060811
VN5359 A1	20060126	VN20040000961	20020225
WO03073029 A1	20030904	WO2002US05636	20020225

Priority:

AU20020244146	20020225	CA20022477276	20020225	US20020505535	20020225
WO2002US05636	20020225	CA20022614643	20020225	US20040505535	20040823
AU20050200750	20050218	US20060464132	20060811	US20080124053	20080520

Probable Assignee: WORLDWIDE WATER LLC

Assignee(s): (std): COLBERT CLAYTON ; FORSBERG FRANCIS C ; GLOBAL WATER CO ; WORLDWIDE WATER L L C ; WORLDWIDE WATER LLC

Assignee(s): CLAYTON COLBERT ; WORLDWIDE WATER L L C 101 CONVENTION CENTER DRIVE PLAZA 117 LAS ; FRANCIS C FORSBERG

Inventor(s): (std): FORSBERG FRANCIS ; FORSBERG FRANCIS C ; KOLBURT C ; FRANCIS C FORSBERG ; FOSBOGER F C ; CLAYTON COLBERT ; COLBERT CLAYTON

Inventor(s): F C FOSBOGER ; FC FOSBOGER ; C KOLBURT

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP; LOVEN KEITH JAMES; WILLIAMS DAVIS HILL AND CO SUITE 701 7TH FLOOR 6 8 POTTINGER STREET CENTRAL; DR MARK FRIEDMAN LTD; SHAMOTO ICHIO; CHIBA AKIO; MASUI CHUJI; KOBAYASHI YASUSHI; TOMITA HIROYUKI; MIYAMAE TORU; COX AND SMITH INC; COX SMITH MATTHEWS INC

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 CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

50) Family number: 52369375 (US2014069134A)

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Title: SYSTEM FOR CONDENSATE ENERGY UTILIZATION

Abstract: An air conditioning system includes an inlet duct, supply duct, return duct and exhaust duct; a heat exchanger for providing heat transfer between air from the inlet duct and air from the return duct; a cooling coil position in the supply duct; a pan for collecting condensate from the cooling coil; a pump to pump condensate from the pan; and a sprayer coupled to the pump, the sprayer spraying condensate into an air path to increase efficiency of the air conditioning system.

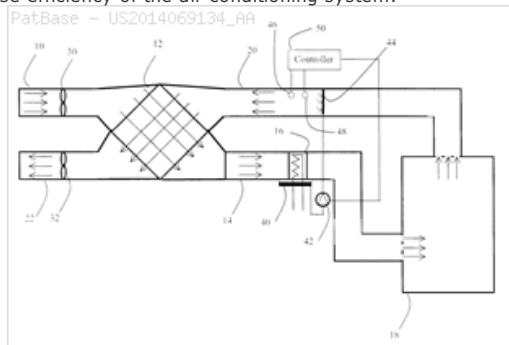
Classifications:

International (IPC 8-9): F24F11/02 F24F11/06 F24F11/83 F24F11/89 F24F12/00 F24F13/22 F24F3/14 F24F3/153 F25B47/00 F28D5/00 (Advanced/Invention)

CPC: F24F12/00 F28D5/00 F24F3/1405 F24F3/153 F24F12/006 F24F13/222 Y02B30/563 F24F11/83 F24F11/89

European: F24F11/02 F24F11/06 F24F12/00B3 F24F13/22B F24F3/14A F24F3/153

US: 62/291 62/304 62/305



Family:

Publication number	Publication date	Application number	Application date
CN103518102 A	20140115	CN201180070776	20110511
CN103518102 B	20161012	CN201180070776	20110511
EP2712415 A1	20140402	EP20110751639	20110511
EP2712415 B1	20190306	EP20110751639	20110511
US2014069134 AA	20140313	US20110116437	20110511
US9765987 BB	20170919	US20110116437	20110511
WO12153163 A1	20121115	WO2011B01562	20110511

Priority:

WO2011B01562 20110511

Probable Assignee: CARRIER CORP

Assignee(s): (std): CARRIER CORP ; GRABON MICHEL

Assignee(s): CARRIER SCS

Inventor(s): (std): GRABON MICHEL

Agent(s): KLUNKER SCHMITT NILSON HIRSCH; SCHMITT NILSON SCHRAUD WAIBEL WOHLFROM PATENTANWAELTE PARTNERSCHAFT MBB; CANTOR COLBURN LLP; FOX DAVID A

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

51) Family number: 62739395 (US2017342193A)

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Title: SELF-REPAIRING POLYURETHANE RESIN MATERIAL, SELF-REPAIRING POLYURETHANE RESIN, SELF-REPAIRING COATING MATERIAL, SELF-REPAIRING ELASTOMER MATERIAL, METHOD FOR PRODUCING SELF-REPAIRING POLYURETHANE RESIN MATERIAL, AND METHOD FOR PRODUCING SELF-REPAIRING POLYURETHANE RESIN

Abstract: A self-repairing polyurethane resin material is produced by reaction of a polyisocyanate compound consisting of aliphatic polyisocyanate and/or araliphatic polyisocyanate with an active hydrogen group-containing compound, used for producing polyurethane resin having self-repairing properties, has an isocyanate group at its molecular terminal, contains an allophanate group and an isocyanate trimer, and the mole ratio of the allophanate group relative to the isocyanate trimer is 0.1 to 20.

Classifications:

International (IPC 8-9): C08G C08G18/09 C08G18/10 C08G18/16 C08G18/18 C08G18/24 C08G18/26 C08G18/42 C08G18/44 C08G18/48 C08G18/62 C08G18/73 C08G18/75 C08G18/76 C08G18/78 C08G18/79 C09D C09D175/04 C09D175/06 (Advanced/Invention); C08G18/10 (Core/Invention)

CPC: C09D175/04 C08G18/7837 C08G18/16 C08G18/44 C09D175/06 C08G18/73 C08G18/1875 C08G18/26 C08G18/79 C08G18/09 C08G18/092 C08G18/168 C08G18/246 C08G18/4202 C08G18/4277 C08G18/4808 C08G18/4825 C08G18/4854 C08G18/6229 C08G18/757 C08G18/7642 C08G18/42

Family:

Publication number	Publication date	Application number	Application date
CN107001558 A	20170801	CN201580066547	20151215
EP3235843 A1	20171025	EP20150869977	20151215
EP3235843 A4	20180815	EP20150869977	20151215
HK1236978 A1	20180406	HK20170111096	20171031
ID201800906 A	20180126	ID2017P0003700	20151215
IN201717020023 A	20171117	IN201717020023	20170607

JP2016098772 A1	20171102	JP20160564862T	20151215
JP6386086 B1	20180905	JP20160564862T	20151215
KR101943242 B1	20190128	KR20177015075	20151215
KR20170078817 A	20170707	KR20177015075	20151215
MX2017007863 A1	20171002	MX20170007863	20151215
TH173810 A	20180302	TH20171003128	20151215
US2017342193 AA	20171130	US20150535664	20151215
WO16098772 A1	20160623	WO2015JP85079	20151215

Priority:

JP20140253243 20141215 WO2015JP85079 20151215

Probable Assignee: MITSUI CHEMICALS INC

Assignee(s): (std): MITSUI CHEMICALS INC

Inventor(s): (std): HIROKAZU MORITA ; SATOSHI YAMASAKI ; TAKASHI KANNO ; TOSHIHIKO NAKAGAWA ; YAMASAKI SATOSHI ; NAKAGAWA TOSHIHIKO ; MORITA HIROKAZU ; KANNO TAKASHI

Agent(s): HOFFMANN EITL; KING AND WOOD MALLESONS IP LTD; IRYT WIDJOJO; OKAMOTO HIROYUKI ET AL

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

52) Family number: 62739397 (US2017342189A)

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Title: SELF-REPAIRING POLYURETHANE RESIN MATERIAL, SELF-REPAIRING POLYURETHANE RESIN, SELF-REPAIRING COATING MATERIAL, SELF-REPAIRING ELASTOMER MATERIAL, METHOD FOR PRODUCING SELF-REPAIRING POLYURETHANE RESIN MATERIAL, AND METHOD FOR PRODUCING SELF-REPAIRING POLYURETHANE RESIN

Abstract: In a self-repairing polyurethane resin material produced by reaction of pentamethylenediisocyanate with an active hydrogen group-containing compound, the active hydrogen group-containing compound contains a polyol compound having a number average molecular weight of 100 to 2000 and an average functionality of 2 to 3.

Classifications:

International (IPC 8-9): C08G C08G18/10 C08G18/12 C08G18/18 C08G18/24 C08G18/28 C08G18/32 C08G18/42 C08G18/44 C08G18/48 C08G18/61 C08G18/62 C08G18/73 C08G18/78 C08G18/79 C08K5/524 C09D C09D175/04 C09D175/06 (Advanced/Invention); C08G18/10 (Core/Invention)

CPC: C08G18/735 C08G18/42 C08G18/44 C08G18/7837 C08G18/10 C08G18/73 C09D175/04 C08G18/12 C08G18/1875 C08G18/246 C08G18/282 C08G18/2825 C08G18/283 C08G18/3203 C08G18/3206 C08G18/4825 C08G18/485 C08G18/4854 C08G18/61 C08G18/6229 C08G18/792 C08K5/524

Family:

Publication number	Publication date	Application number	Application date
CN107001557 A	20170801	CN201580066544	20151215
EP3235842 A1	20171025	EP20150869976	20151215
EP3235842 A4	20180808	EP20150869976	20151215
HK1236979 A1	20180406	HK20170111102	20171031
ID201800900 A	20180126	ID2017P0003699	20151215
IN201717020024 A	20171117	IN201717020024	20170607
JP2016098771 A1	20170907	JP20160564861T	20151215
JP6386085 B1	20180905	JP20160564861T	20151215
KR101943241 B1	20190128	KR20177015071	20151215
KR20170078816 A	20170707	KR20177015071	20151215
MX2017007864 A1	20171002	MX20170007864	20151215
TH173809 A	20180302	TH20171003127	20151215
US2017342189 AA	20171130	US20150535658	20151215
WO16098771 A1	20160623	WO2015JP85078	20151215

Priority:

JP20140253242 20141215 WO2015JP85078 20151215

Probable Assignee: MITSUI CHEMICALS INC

Assignee(s): (std): MITSUI CHEMICALS INC

Inventor(s): (std): HIROKAZU MORITA ; KANNO TAKASHI ; MORITA HIROKAZU ; NAKAGAWA TOSHIHIKO ; SATOSHI YAMASAKI ; TAKASHI KANNO ; TOSHIHIKO NAKAGAWA ; YAMASAKI SATOSHI

Agent(s): HOFFMANN EITL; KING AND WOOD MALLESONS IP LTD; IRYT WIDJOJO; OKAMOTO HIROYUKI ET AL

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

53) Family number: 43636400 (WO09101586A2)

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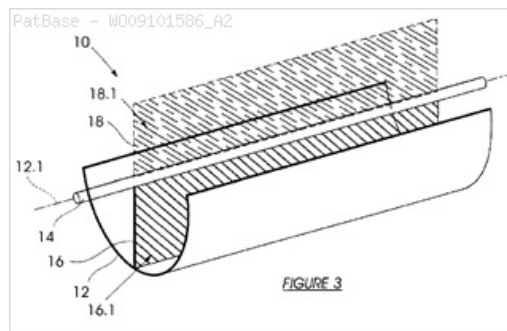
Title: SOLAR ENERGY COLLECTOR AND SYSTEM

Abstract: There is disclosed a solar energy comprising an optical solar radiation concentrator that is operable to direct incident solar radiation to a primary solar energy collector and a secondary solar energy collector that is configured to collect at least some solar energy from diffuse solar radiation not directed to the primary solar energy collector. Also disclosed is a holistic solar energy system and energy supply system.

Classifications:

International (IPC 8-9): F24J2/00 F24J2/04 F24J2/07 F24J2/08 F24J2/14 F24J2/34 (Advanced/Invention);

F24J2/00 F24J2/04 F24J2/06 (Core/Invention)
CPC: F24S23/31 F24S10/20 F24S20/20 F24S20/25 F24S20/40
F24S23/74 F24S60/00 Y02E10/41 Y02E10/44 Y02E10/45
European: F24J2/00B F24J2/00E F24J2/04D F24J2/07 F24J2/08B
F24J2/14 F24J2/34 Y02E10/41 Y02E10/43 Y02E10/44 Y02E10/45



Family:

Publication number	Publication date	Application number	Application date
WO09101586 A2	20090820	WO2009IB50561	20090211
WO09101586 A3	20091029	WO2009IB50561	20090211

Priority:

ZA20070008389 20080211

Probable Assignee: DU TOIT JACOBUS CHRISTIAAN FAU

Assignee(s): (std): DU TOIT JACOBUS CHRISTIAAN FAU ; DU TOIT JACOBUS CHRISTIAAN FAURE ; SCHUTTE ADRIAAN NICHOLAAS

Inventor(s): (std): SCHUTTE ADRIAAN NICHOLAAS ; DU TOIT JACOBUS CHRISTIAAN FAURE

Agent(s): DESSINGTON DE BEER

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

54) Family number: 2213409 (US4413478A)

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Title: AIR CONDITIONING SYSTEM AND METHOD

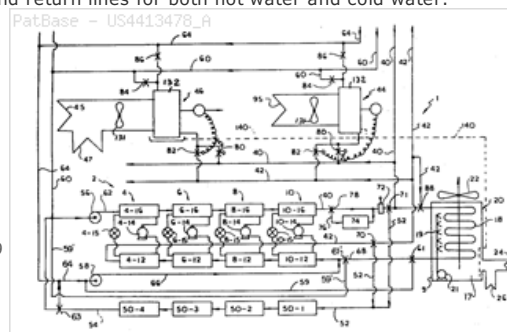
Abstract: An air conditioning system and method wherein a central pumping system circulates a heat-exchange liquid (which is water or a glycol solution or other solution called "water") through heating and cooling paths of a refrigeration system and then to and from air-treating units. The fans or blowers of the air-treating units are positioned upstream of the air cooling and heating coils so that the fan heat and pump heat are discharged through the fluid cooler system during cooling load operation, and all of that heat is available for delivery to the air treating units during heating-load operation. The quantity of outside (fresh) air is selected and controlled so that adequate ventilation is provided, and during cold weather so that multi-story buildings may be provided with adequate pressurization to overcome an objectionable inflow of cold air at ground floor levels at entrances and exits. In the embodiments shown, such additional air is discharged through the fluid cooler to carry away heat during cooling load operation. One embodiment includes a separate line for neutral water to each air treating unit. The neutral water is mixed with either the hot or the cold water supplied to each air-treating unit for temperature control as distinguished from the standard three-pipe system wherein hot and cold water are mixed to provide temperature control. Another embodiment is a four pipe system having separate supply and return lines for both hot water and cold water.

Classifications:

International (IPC 8-9): B63B21/50 F24D11/02 F24F3/00 F24F3/06 F24F3/08 F24F3/147 F25B29/00 (Advanced/Invention); B63B21/00 F24D11/00 F24F3/06 F24F3/12 F25B29/00 (Core/Invention)
International (IPC 1-7): B63B35/44 F24D5/02 F24F3/00 F24F3/06 F24F3/08 F24F3/147 F24F5/00 F25D17/02 F25D31/00

CPC: B63B21/502 B63B2211/06 Y02B30/125 F24F3/08 F24D11/0257 F25B29/003 F25B2339/047 F25B2400/06 Y02B10/70 Y02B30/13
European: B63B21/50B F24D11/02D F24F3/08 F25B29/00B L63B211/06 R25B339/047 R25B400/06 Y02B10/70 Y02B30/12B2

US: 114/265 165/22 165/221 237/2B 405/195 405/195.1 405/203 405/224 62/118 62/159 62/238.6 62/325 62/412 62/435 62/98 62/99



Family:

Publication number	Publication date	Application number	Application date
AU198288383 A1	19830519	AU19820088383	19820914
AU198658074 A1	19861016	AU19860058074	19860529
AU198779338 A1	19880114	AU19870079338	19871002
AU573091 B2	19880526	AU19860058074	19860529
CA1182642 A1	19850219	CA19820411364	19820914
GB2109106 A1	19830525	GB19820026176	19820914
GB2109106 B2	19861203	GB19820026176	19820914
GB2149907 A1	19850619	GB19840032271	19841220
GB2149907 B2	19861203	GB19840032271	19841220
GB8432271 A0	19850130	GB19840032271	19841220
US4413478 A	19831108	US19820340328	19820118
US4419864 A	19831213	US19810301655	19810914
US4423985 A	19840103	US19810301665	19810914
US4559788 A	19851224	US19830535658	19830926

Priority:

US19810301665 19810914

US19810301655 19810914

US19820340328 19820118

Probable Assignee: MCFARLAN AI

Assignee(s): (std): CHEVRON RES ; MCFARLAN ALDEN I ; MCFARLAN ALDEN IRVING

Assignee(s): MCFARLAN AI ; MCFARLAN A I ; CHEVRON RESEARCH CO ; CHEVRON RESEARCH COMPANY ; ALDEN IRVING MCFARLAN

Inventor(s): (std): AAGAARD PAUL M ; MCFARLAN ALDEN I ; MCFARLAN ALDEN IRVING

Inventor(s): ALDEN I MCFARLAN ; ALDEN IRVING MCFARLAN

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; SMART AND BIGGAR

55) Family number: 34486410 (US2007178152A)

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Title: CARBOXYALKYLCELLULOSE ESTERS FOR ADMINISTRATION OF POORLY SOLUBLE PHARMACEUTICALLY ACTIVE AGENTS

Abstract: Disclosed herein are pharmaceutical compositions comprising carboxyalkylcellulose esters for delivery of pharmaceutically active substances having low solubility in a medium such as water, an acidic aqueous buffer, a neutral aqueous buffer, or a basic aqueous buffer. Also disclosed are methods for making pharmaceutical compositions and methods of administering the compositions.

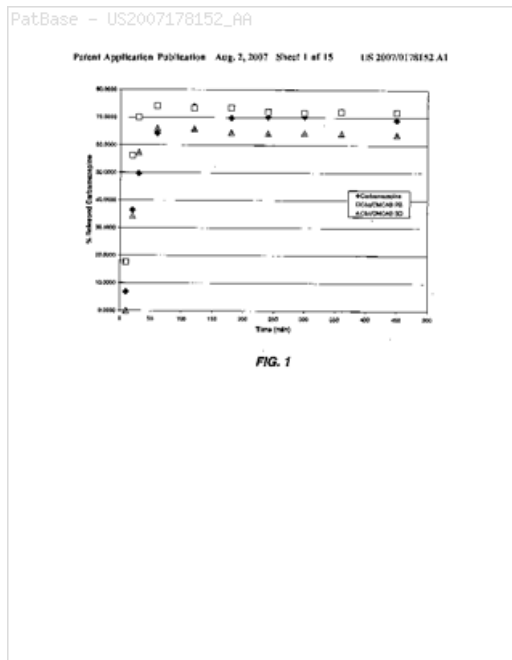
Classifications:

International (IPC 8-9): A61K31/71 A61K31/717 A61K47/14
A61K47/20 A61K47/22 A61K47/26 A61K47/34 A61K47/36
A61K47/38 A61K9/10 A61K9/14 A61K9/20 (Advanced/Invention);
A61K31/71 A61K31/716 A61K47/14 A61K47/20 A61K47/22
A61K47/26 A61K47/34 A61K47/36 A61K47/38 A61K9/10 A61K9/14
A61K9/20 (Core/Invention)

CPC: A61K9/10 A61K9/141 A61K31/717 A61K47/38

European: A61K31/717 A61K47/38 A61K9/10 A61K9/14H

US: 424/464 424/464P 514/57 514/57S



Family:

Publication number	Publication date	Application number	Application date
CN101299993 A	20081105	CN200680041159	20061103
EP1942872 A2	20080716	EP20060827500	20061103
JP2009514884 T2	20090409	JP20080539082T	20061103
US2007178152 AA	20070802	US20060592130	20061103
WO07056205 A2	20070518	WO2006US43077	20061103
WO07056205 A3	20071025	WO2006US43077	20061103

Priority:

US20050733495P 20051104 US20050733495P 20051104 US20060592130 20061103
WO2006US43077 20061103

Probable Assignee: EASTMAN CHEMICAL CO

Assignee(s): (std): DRESSMAN JENNIFER ; EASTMAN CHEM CO ; EDGAR KEVIN J ; POSEY DOWTY JESSICA D ; LINGERFELT LARRY R JR ; KLEIN SANDRA ; SHELTON MICHAEL C ; KIRK SHANE K

Assignee(s): EASTMAN CHEMICAL CO ; EASTMAN CHEMICAL COMPANY

Inventor(s): (std): DRESSMAN JENNIFER ; DRESSMAN JENNIFER JOY ; EDGAR KEVIN J ; EDGAR KEVIN JOSEPH ; KIRK SHANE K ; KIRK SHANE KIPLEY ; KLEIN SANDRA ; LINGERFELT LARRY R JR ; LINGERFELT LARRY RONNIE JR ; POSEY DOWTY JESSICA D ; POSEY DOWTY JESSICA DEE ; SHELTON MICHAEL C ; SHELTON MICHAEL CHARLES ; SANDRA KLEIN

Inventor(s): SHELTON MICHAEL ; POSEY DOWTY JESSICA ; LINGERFELT LARRY RJR ; LINGERFELT LARRY ; LINGERFELT LARRY R ; KIRK SHANE ; EDGAR KEVIN

Agent(s): REES KERRY ET AL; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER, LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP

Designated states: 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 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 MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW

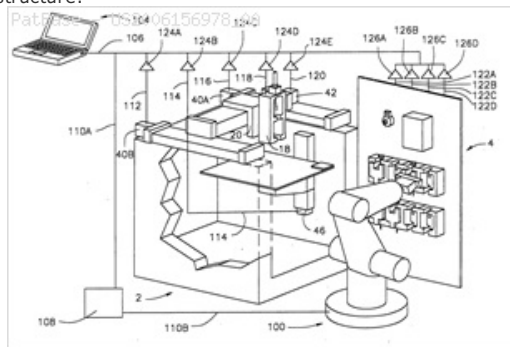
Title: MODULAR FABRICATION SYSTEMS AND METHODS

Abstract: The present invention relates to an article fabrication system having a plurality of material deposition tools containing one or more materials useful in fabricating the article, and a material deposition device having a tool interface for receiving one of the material deposition tools. A system controller is operably connected to the material deposition device to control operation of the material deposition device. Also disclosed is a method of fabricating an article using the system of the invention and a method of fabricating a living three-dimensional structure.

Classifications:

International (IPC 8-9): A23P1/08 A23P20/20 A61F2/02 A61F2/10 A61F2/20 A61F2/28 A61L27/20 A61L27/36 A61L27/38 A61L27/44 A61L27/52 A61L27/54 B05C11/00 B22F7/02 B28B1/00 B28B1/14 B29B13/00 B29B15/00 B29C35/02 B29C39/04 B29C45/16 B29C64/106 B29C64/386 B29C67/00 B29C67/02 B33Y10/00 B33Y30/00 B33Y40/00 B33Y50/00 B33Y50/02 B33Y70/00 C04B35/64 H01L21/00 (Advanced/Invention); B29L31/00 B33Y10/00 B33Y50/02 B33Y70/00 B33Y80/00 (Advanced/Non-invention); A61F2/02 A61F2/10 A61F2/20 A61F2/28 B05C11/00 B22F7/02 B28B1/00 B29B13/00 B29B15/00 B29C35/02 B29C39/04 B29C67/02 C04B35/64 H01L21/00 (Core/Invention)
CPC: A61L27/52 A61L27/3817 A61L2430/10 A61L27/36 A61L27/54 A61L27/44 A61L27/20 B29L2031/7532 B33Y80/00 B33Y40/00 B33Y50/02 B33Y50/00 B33Y10/00 B33Y70/00 A23P1/086 B29C64/209 A23P20/20 B33Y30/00 A23P2020/253 B29C64/106 B29C64/386
European: B29C67/00R2

US: 1/1 101/491 118/708 264/308 264/308P 264/401 425/150 425/169 425/174 425/375 426/115 426/231 426/233 438/1 438/1P 438/3 438/3S 438/5 438/5S

**Family:**

Publication number	Publication date	Application number	Application date
US2006156978 AA	20060720	US20050200994	20050810
US2006160250 AA	20060720	US20050201057	20050810
US2011169193 AA	20110714	US20110052787	20110321
US2013089642 AA	20130411	US20120542114	20120705
US2014117586 AA	20140501	US20140146179	20140102
US2015084238 AA	20150326	US20140504375	20141001
US2016095959 AA	20160407	US20150965317	20151210
US2018303975 AA	20181025	US20180023153	20180629
US7625198 BB	20091201	US20050200994	20050810
US7939003 BB	20110510	US20050201057	20050810
US8636938 BB	20140128	US20110052787	20110321
US8877112 BB	20141104	US20140146179	20140102
US9242031 BB	20160126	US20140504375	20141001
US9723866 BB	20170808	US20120542114	20120705
US10034964 BB	20180731	US20150965317	20151210
WO06020685 A2	20060223	WO2005US28369	20050810
WO06020685 A3	20070531	WO2005US28369	20050810

Priority:

US20040600529P	20040811	US20050704299P	20050801	US20050200994	20050810
US20050201057	20050810	US20110052787	20110321	US20120542114	20120705
US20140146179	20140102	US20140504375	20141001	US20150965317	20151210
US20180023153	20180629				

Probable Assignee: CORNELL RESEARCH FOUNDATION INC

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Assignee(s): CORNELL UNIVERSITY CORNELL CENTER FOR TECHNOLOGY ENTERPRISE AND COMMERCIALIZATION CCTEC ; CORNELL UNIV CORNELL CENTER FOR TECHNOLOGY ENTERPRISE AND COMMERCIALIZATION CCTEC ; CORNELL RESEARCH FOUNDATION ; CORNELL RESEARCH FOUNDATION INC ; CORNELL UNIV

Inventor(s): (std): COHEN DANIEL L ; LIPSON HOD ; LIPTON JEFFREY I ; MALONE EVAN ; BONASSAR LAWRENCE ; COHEN

Inventor(s): COHEN DANIEL

Agent(s): MICHAEL L GOLDMAN NIXON PEABODY LLP; NIXON PEABODY LLP; LECLAIRRYAN; LECLAIRRYAN A PROFESSIONAL CORP; LECLAIRRYAN PLLC

Designated states: 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 KM KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

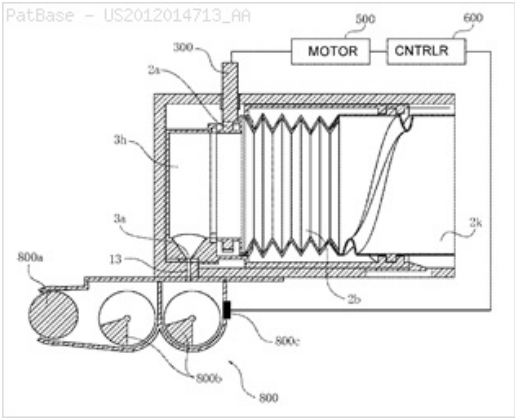
Title: DEVELOPER SUPPLY CONTAINER AND DEVELOPER SUPPLYING SYSTEM

Abstract: In the case that a developer supply container is provided with a feeding portion for feeding a developer by receiving a rotational force and a pump portion for discharging the developer by reciprocation, and the rotational force and a reciprocating force are received from a main assembly side of an image forming apparatus, there is a liability that a driving connection is not properly established between a portion of the developer supply container for receiving the reciprocating force and a portion of the main assembly side for applying the reciprocating force. The developer supply container is provided with a drive converting mechanism for converting the rotational force received from the main assembly side to a force for operating a volume changing type pump.

Classifications:

International (IPC 8-9): G03G G03G15/00 G03G15/06 G03G15/08 G03G15/09 (Advanced/Invention);

G03G15/00 (Core/Invention);
G03G15/08 (Core/Non-invention);
G03G (Subclass/Invention)
International (IPC 1-7): G03G15/08
CPC: G03G15/0872 G03G15/0877 G03G2215/0685 G03G15/0867
G03G15/0865 G03G15/0808 G03G15/0812 G03G15/0849
European: G03G15/08H3C1 G03G15/08H3D S03G215/06C4
US: 1/1 399/119 399/119P 399/258 399/262



Family:

Publication number	Publication date	Application number	Application date
AU2010232164 AA	20101007	AU20100232164	20100330
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AU2014216008 AA	20140911	AU20140216008	20140822
AU2014216008 BB	20151203	AU20140216008	20140822
AU2016201102 AA	20160310	AU20160201102	20160223
AU2016201102 BB	20170504	AU20160201102	20160223
AU2017208233 AA	20170810	AU20170208233	20170725
BR122015021128 A2	20160510	BR20151221128	20100330
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BRPI1013188 A2	20160412	BR2010PI13188	20100330
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CA2757329 C	20170725	CA20102757329	20100330
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CA2891991 AA	20101007	CA20102891991	20100330
CA2955475 AA	20101007	CA20102955475	20100330
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CN103853011 A	20140611	CN201410046837	20100330
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CN103853012 B	20171024	CN201410047157	20100330
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HK1194155 A1	20141010	HK20140107546	20140724
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HR20150408 T1	20150619	HR20150000408	20150413
HR20180544 T1	20180629	HR20180000544	20180404
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MX353327 B	20180108	MX20160004879	20100330
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US2014233986 AA	20140821	US20140266892	20140501
US2016131994 AA	20160512	US20150982454	20151229
US2017285521 AA	20171005	US20170624803	20170616
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VN17814 A1	20171225	VN20130002558	20100330
VN19429 A1	20180725	VN20160004481	20100330
WO10114153 A1	20101007	WO2010JP56133	20100330

Priority:

JP20090082081	20090330	AU20100232164	20100330	CA20102757329	20100330
BR2010PI113188	20100330	DE201011006123	20100330	CN201080014943	20100330
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US20140266892	20140501	AU20140216008	20140822	EP20150156670	20150226
CA20152757329	20150522	CA20152757329	20150527	US20150982454	20151229
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Probable Assignee: CANON INC

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Assignee(s): KENON KABUSIKI KAJSYA ; CANON INC ; CANON KABUSHIKI KAISHA ; KEHNON KABUSIKI KAJSJA

Inventor(s): (std): AYATOMO OKINO ; FUMIO TAZAWA ; JAMADA JUSUKE ; KATSUYA MURAKAMI ; MURAKAMI KATSUJA ; MURAKAMI KATSUYA ; MURAKAMI TAKEYA ; NAGASIMA TOSIAKI ; OKINO AJATOMO ; OKINO AYATOMO ; NAGASHIMA TOSHIKI ; OKINO NORITOMO ; TAZAWA FUMIO ; TAZAWA BUNRO ; TAZAWA FUMIO ; TOSHIKI NAGASHIMA ; YAMADA YUSUKE ; YUSUKE YAMADA

Inventor(s): OKINO AYATOMO SEE

Agent(s): SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP; TBK; DURAN CARLOS; DURAN CORRETJER SLP; DURAN CORRETJER SLP; DEACONS; OOO YURIDICHESKAYA GORODISSKIJ I PARTNERY FA; ELISAVET YAKOVIDIS CINLEMEZ; FITZPATRICK CELLA HARPER AND SCINTO; VENABLE LLP; YAMADA RYUICHI

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 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

Abstract: An improved apparatus and method for measuring the concentration of hydrogen peroxide vapor or gas in a sterilization chamber. The hydrogen peroxide is measured spectrophotometrically in the ultraviolet region between 200 and 400 nm. Because water vapor does not absorb in the ultraviolet region, it does not interfere with the determination of the concentration of the hydrogen peroxide vapor. Although organic compounds have absorbances in the ultraviolet region, the organic compounds are removed by evacuating the sterilization chamber to low levels before doing the hydrogen peroxide determination. The ultraviolet light source is either a low pressure mercury vapor lamp with an emission at 254 nm or a deuterium lamp with an optical filter selective of 206 nm light. A movable gas cell can be used to measure the hydrogen peroxide concentration at various areas in the sterilization chamber. The measurement system can be combined with a feedback loop to control the concentration of hydrogen peroxide in the sterilization chamber.

Classifications:

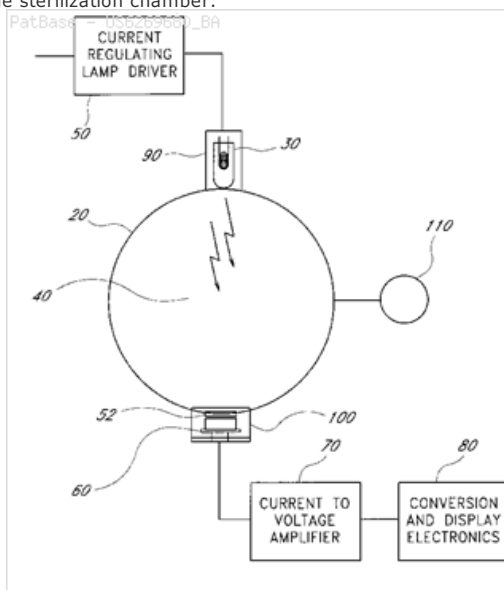
International (IPC 8-9): G01N21/25 G01N21/33 (Advanced/Invention); G01N21/25 G01N21/31 (Core/Invention)

International (IPC 1-7): G01N21/25 G01N21/33 G01N21/35 G01N21/59 G01N21/61

CPC: Y10T436/206664 A61L2/208 A61L2/24 A61L2/28 G01N21/33

European: A61L2/20H A61L2/24 A61L2/28 G01N21/33

US: 250/373 422/28 436/135 73/23.2 73/23.21

**Family:**

Publication number	Publication date	Application number	Application date
AU199892352 A1	19990603	AU19980092352	19981111
AU753047 B2	20021003	AU19980092352	19981111
CA2253975 AA	19990514	CA19982253975	19981112
CA2253975 C	20100824	CA19982253975	19981112
DE69828569 D1	20050217	DE19986028569	19981113
DE69828569 D1	20050217	DE19986028569T	19981113
DE69828569 T2	20060105	DE19986028569T	19981113
EP0916937 A2	19990519	EP19980309304	19981113
EP0916937 A3	19990616	EP19980309304	19981113
EP0916937 B1	20050112	EP19980309304	19981113
ES2235300 T3	20050701	ES19980309304T	19981113
JP11230899 A2	19990827	JP19980338421	19981113
JP4108206 B2	20080625	JP19980338421	19981113
US6269680 BA	20010807	US19990337727	19990621

Priority:

US19970970925 19971114 CA19982253975 19981112 US19990337727 19990621

Probable Assignee: ETHICON INC

Assignee(s): (std): ETHICON INC ; JOHNSON AND JOHNSON RES PTY LTD

Assignee(s): JOHNSON AND JOHNSON RESEARCH PTY LTD ; PRIEVE JOHN F ; JOHNSON AND JOHNSON MEDICAL INC

Inventor(s): (std): JOHN F PRIEVE ; TIMMONS RICHARD B ; PRIEVE JOHN F ; LIN SZU MIN ; JACOBS PAUL TAYLOR

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; OGILVY RENAULT LLP SENCRL SRL

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

59) Family number: 71313423 (US2018272346A)

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Title: MODULAR ORGAN MICROPHYSIOLOGICAL SYSTEM WITH MICROBIOME

Abstract: Fluidic multiwell bioreactors are provided as a microphysiological platform for in vitro investigation of multi-organ crosstalks with microbiome for an extended period of time of at least weeks and months. The platform has one or more improvements over existing bioreactors, including on-board pumping for pneumatically driven fluid flow, a redesigned spillway for self-leveling from source to sink, a non-contact built-in fluid level sensing device, precise control on fluid flow profile and partitioning, and facile reconfigurations such as daisy chaining and multilayer stacking. The platform supports the culture of multiple organs together with microbiome in a microphysiological, interacted systems, suitable for a wide range of biomedical applications including systemic toxicity studies and physiology-based pharmacokinetic and pharmacodynamic predictions. A process to fabricate the bioreactors is also provided.

Classifications:

International (IPC 8-9): B01L3/00 C12M1/00 C12M1/12 C12M1/32 F04B19/00 F04B23/06 F04B43/04 G01F23/00

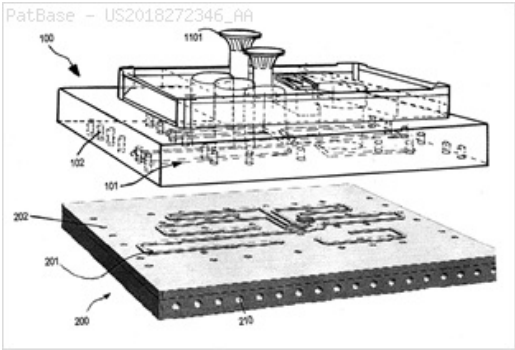
G01F23/26 (Advanced/Invention)

CPC: B01L3/502715 B01L3/50273 G01F23/263 B01J2219/00889 B01J2219/00182 B01J2219/00479 B01J2219/00306 B01J2219/00952

B01J2219/00355 B01L3/502738 B01L2200/0621 B01L2300/0829

B01L2300/0887 B01L2400/0406 B01L2400/0457 B01L2400/0487

B01L2400/0655 B01L2400/086 F04B19/006 F04B23/06 G01F23/00



Family:

Publication number	Publication date	Application number	Application date
US2018272346 AA	20180927	US20180926900	20180320
WO18175478 A2	20180927	WO2018US23411	20180320
WO18175478 A3	20181115	WO2018US23411	20180320

Priority:

US20170474337P 20170321 US20170556595P 20170911 US20180926900 20180320

Probable Assignee: MASSACHUSETTS INST OF TECHNOLOGY

Assignee(s): (std): MASSACHUSETTS INST OF TECH ; MASSACHUSETTS INST TECHNOLOGY

Assignee(s): CONTINUUM LLC ; MASSACHUSETTS INST OF TECHNOLOGY

Inventor(s): (std): BHUSHAN MOHAN BRIJ ; EDINGTON COLLIN ; FREAKER DUNCAN ; GRIFFITH LINDA ; GRIFFITH LINDA G ; KASSIS TIMOTHY ; ROHATGI GAURAV ; SOENKSEN LUIS ; TRUMPER DAVID ; BHUSHAN BRIJ

Inventor(s): BHUSHAN BRIJ MOHAN ; TRUMPER DAVID L

Agent(s): PABST PATREA L ET AL

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 DJ 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 JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM 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

60) Family number: 8440431 (US5386709A)

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Title: Subcooling and proportional control of subcooling of liquid refrigerant circuits with thermal storage or low temperature reservoirs

Abstract: The present invention provides method and apparatus for incorporating thermal storage and other low-temperature reservoirs with new or retrofittable refrigerant circuit devices to increase their thermal operating capacity and efficiency by subcooling refrigerant condensate with subcoolers, as illustrated in a plurality of structural arrangements, which allows simultaneous cooling of a refrigerated volume and recharging of the thermal storage system, and further, it may utilize proportional subcooling to proportionally control evaporator capacity.

Classifications:

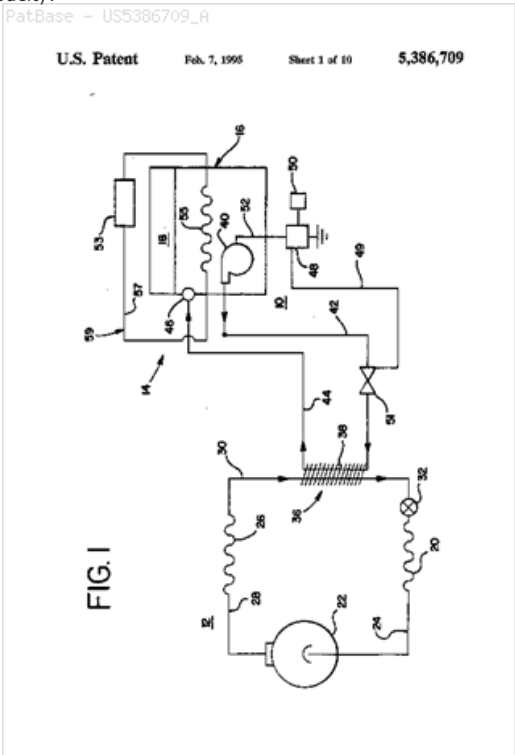
International (ipc 8-9): F24F5/00 F25B1/00 F25B13/00 F25B40/02 F25B5/00 F25B5/02 F25B7/00 F25D16/00 (Advanced/Invention); F24F5/00 F25B1/00 F25B13/00 F25B5/00 (Advanced/Non-invention); F24F5/00 F25B1/00 F25B13/00 F25B40/00 F25B5/00 F25B7/00 F25D16/00 (Core/Invention)

International (ipc 1-7): F24F5/00 F25B1/00 F25B40/02 F25B5/00 F25B5/02 F25B7/00 F25D11/00 F25D16/00 F25D29/00 F28D7/00

CPC: F25B5/02 F25B7/00 F25B40/02 F25B2400/075 F25B2400/22 F25D16/00

European: F25B40/02 F25B5/02 F25B7/00 F25D16/00 R25B400/075 R25B400/22

US: 62/199 62/335 62/79



Family:

Publication number	Publication date	Application number	Application date
AU199352319 A1	19940623	AU19930052319	19931210

AU665472 B2	19960104	AU19930052319	19931210
BRPI9305022 A	19940621	BR1993PI05022	19931210
DE69317368 D1	19980416	DE19936017368	19931210
DE69317368 T2	19980702	DE19936017368T	19931210
EP0601875 A1	19940615	EP19930309974	19931210
EP0601875 B1	19980311	EP19930309974	19931210
ES2114012 T3	19980516	ES19930309974T	19931210
JP7071829 A2	19950317	JP19930345747	19931210
KR0136075 B1	19980701	KR19930027460	19931210
KR19940015450 A	19940721	KR19930027460	19931210
US5386709 A	19950207	US19920988547	19921210

Priority:

US19920988547 19921210

Probable Assignee: BALTIMORE AIRCOIL CO INC

Assignee(s): (std): BALTIMORE AIRCOIL CO INC

Assignee(s): BALTIMORE AIRCOIL CO INC JESSUP MD US ; BALTIMORE AIRCOIL CO LTD ; CITICORP USA INC ; BALTIMORE AIRCOIL COMPANY INC ; BANK OF AMERICA NA ; BANK OF AMERICA NA SUCCESSOR COLLATERAL AGENT AS ; BALTIMORE AIRCOIL CO

Inventor(s): (std): AARON DAVID A ; ARON DAVID A ; DABUITO EI ARON

Inventor(s): DAVID A AARON

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: BE CH DE ES FR IT LI NL

61) Family number: 31058444 (DE10325077A1)

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Title: SEALED PUMP E.G. RECIRCULATION PUMP FOR ANODE CIRCUIT OF FUEL CELL SYSTEM, WITH FLOW CONNECTION ON OUTSIDE OF SHAFT BEARING IN BEARING PLATE BETWEEN FEED SPACE AND MOTOR SPACE OF PUMP

Abstract: The pump (60) has a drive motor contained in a motor space used for driving a motor shaft used for rotation of a feed organ within a feed space and supported by a shaft bearing incorporated in a bearing plate positioned between the motor space and the feed space. A flow connection between the feed space and the motor space is provided on the outside of the shaft bearing.

Classifications:

International (IPC 8-9): F04D23/00 F04D25/06 F04D29/04

F04D29/059 (Advanced/Invention);

F04D23/00 F04D25/02 F04D29/04 F04D29/05 (Core/Invention)

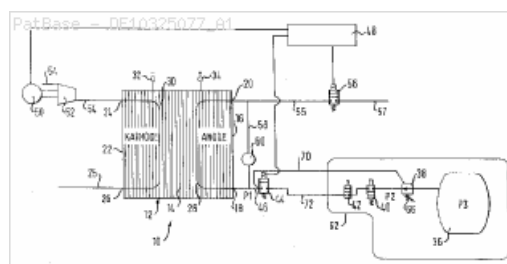
International (IPC 1-7): F04D23/00 F04D29/04 F04D29/40

CPC: F04D29/059 F04D23/008 F04D25/0606 H01M8/04089

H01M2008/1095 F04D17/10

European: F04D23/00R F04D25/06B F04D29/04C F04D29/05

F04D29/059



Family:

Publication number	Publication date	Application number	Application date
DE10325077 A1	20041014	DE20031025077	20030603

Priority:

DE20032012027U 20030401 DE20031025077 20030603

Probable Assignee: GEN MOTORS CORP

Assignee(s): (std): GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP ; GENERAL MOTORS CORP DETROIT

Inventor(s): (std): DUMKE ULRICH ; HOBMEYR RALPH ; SPARSCHUH JENS UWE

62) Family number: 50908454 (US2013209140A)

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Title: DEVELOPER SUPPLY CONTAINER AND DEVELOPER SUPPLYING SYSTEM

Abstract: A developer supply container includes a developer accommodating portion for accommodating a developer; a discharge opening for permitting discharging of the developer from the developer accommodating portion; a drive inputting portion for receiving a driving force; a pump portion capable of being driven by the driving force received by the drive inputting portion to alternating an internal pressure of the developer accommodating portion between a pressure lower than an ambient pressure and a pressure higher than the ambient pressure; and a regulating portion for regulating a position of the pump portion at a start of operation of the pump portion so that in an initial operational period of the pump portion, air is taken into the developer accommodating portion through the discharge opening.

Classifications:

International (IPC 8-9): G03G G03G15/08

G03G21/16 (Advanced/Invention)

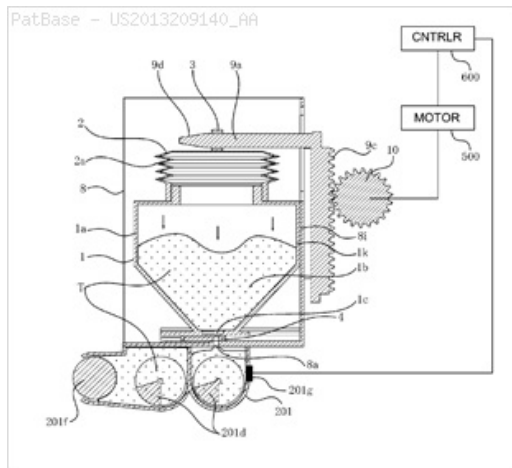
International (IPC 1-7): G03G15/08

CPC: G03G15/0868 G03G15/0872 G03G15/0875 G03G15/0877

G03G15/0886 G03G15/08 G03G21/1647 G03G21/1676 G03G15/0865

European: G03G15/08H33K G03G15/08H35

US: 1/1 399/258



Inventor(s): (std): NAGASHIMA TOSHIKI; YAMADA YUSUKE; ISOMURA TETSUO; MURAKAMI KATSUYA; TAZAWA FUMIO; OKINO AYATOMO; NAKAJIMA NOBUO; OKINO NORITOMO; TAZAWA BUNRO; ISOMURA TETSURO; MURAKAMI TAKEYA; TETSUO ISOMURA; FUMIO TAZAWA; TOSHIKI NAGASHIMA; KATSUYA MURAKAMI; AYATOMO OKINO; NOBUO NAKAJIMA; YUSUKE YAMADA; NAGASIMA TOSIYAKI; TAZAWA FUMIO; NAKADZIMA NOBUO

Agent(s): SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP; TBK; DEACONS; YURIDICHESKAYA GORODISSKIY I PARTNER OOO FA; FITZPATRICK CELLA HARPER AND SCINTO; YAMADA RYUICHI

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 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 QA RO RS RU RW 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

63) Family number: 34971454 (US2009005746A) © PatBase

Title: SUCTION SYSTEM

Abstract: A suction system for removal of exudate from a wound comprises a wound cover which is attachable to a wound circumference of a living being thereby to form an enclosure, and a pump in fluid communication with the enclosure to provide a pressure difference between a negative pressure in the enclosure and an air pressure of an ambient space. A deflectable member is arranged such with respect to the enclosure that the pressure difference may cause deflection of the deflectable member, and a pressure sensing device is located outside the enclosure and arranged to provide a signal in response to the pressure or the deflection of the deflectable member. The deflectable member forms an essentially air tight barrier between the sensor and the enclosure.

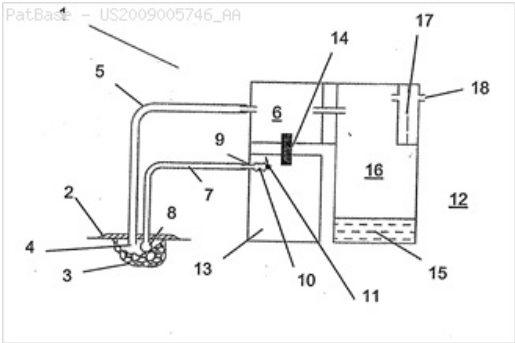
Classifications:

International (IPC 8-9): A61M A61M1/00 A61M1/10 A61M27/00 (Advanced/Invention); A61M1/00 (Advanced/Non-invention); A61M1/00 A61M1/10 A61M27/00 (Core/Invention); A61M1/00 (Core/Non-invention)

CPC: A61M2205/3344 A61M1/0035 A61M1/0072 A61M1/0092 A61M1/0031 A61M1/0066 A61M1/0088 A61M27/00 A61M2205/3331 A61M1/0025

European: A61M1/00H2 A61M1/00P A61M1/00T6 A61M27/00 K61M1/00H2B K61M1/00P4 K61M1/00T6 K61M205/33P

US: 604/290 604/290P 604/315 604/315P 604/315S 604/319 604/319P 604/543 604/543P



Family:

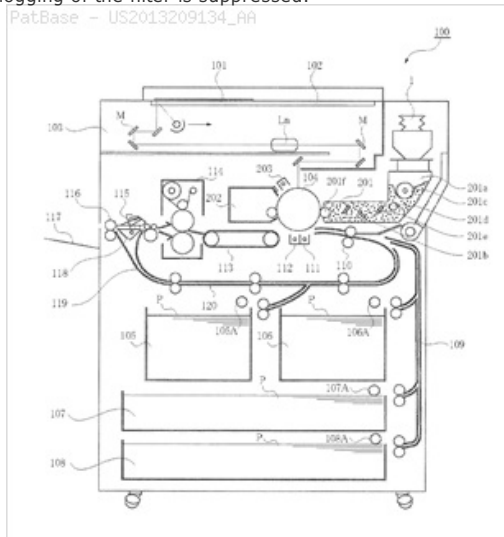
Publication number	Publication date	Application number	Application date
AU2007211736 AA	20070809	AU20070211736	20070201
AU2007211737 AA	20070809	AU20070211737	20070201
AU2007211738 AA	20070809	AU20070211738	20070201
AU2007211739 AA	20070809	AU20070211739	20070201
CA2634274 AA	20080619	CA20072634274	20070201
CA2634275 AA	20080619	CA20072634275	20070201
CA2634276 AA	20080619	CA20072634276	20070201
CA2635697 AA	20080627	CA20072635697	20070201
CN101378793 A	20090304	CN200780004317	20070201
CN101378794 A	20090304	CN200780004326	20070201
CN101378795 A	20090304	CN200780004334	20070201
CN101378803 A	20090304	CN200780004336	20070201
EP1981561 A1	20081022	EP20070702470	20070201
EP1986715 A1	20081105	EP20070702469	20070201
EP1986716 A2	20081105	EP20070702471	20070201
EP1986729 A1	20081105	EP20070702472	20070201
HK1125583 A1	20090814	HK20090104082	20090504
HK1125583 A3	20090814	HK20090104082	20090504
HK1125584 A1	20090814	HK20090104083	20090504
HK1125584 A3	20090814	HK20090104083	20090504
HK1125585 A1	20090814	HK20090104084	20090504
HK1125585 A3	20090814	HK20090104084	20090504
HK1125869 A1	20090821	HK20090103398	20090414
HK1125869 A3	20090821	HK20090103398	20090414
JP2009525085 T2	20090709	JP20080552678T	20070201
JP2009525086 T2	20090709	JP20080552679T	20070201
JP2009525087 T2	20090709	JP20080552680T	20070201
JP2009525088 T2	20090709	JP20080552681T	20070201
US2009005746 AA	20090101	US20070087522	20070201
US2009012484 AA	20090108	US20070087263	20070201
US2009030383 AA	20090129	US20070087113	20070201
US2009036873 AA	20090205	US20070087126	20070201
WO07087808 A1	20070809	WO2007DK00051	20070201
WO07087809 A1	20070809	WO2007DK00052	20070201
WO07087810 A2	20070809	WO2007DK00053	20070201
WO07087810 A3	20071122	WO2007DK00053	20070201
WO07087811 A1	20070809	WO2007DK00054	20070201

Priority:

DK20060000147	20060202	DK20060000148	20060202	DK20060000149	20060202
DK20060001010	20060724	WO2007DK00051	20070201	WO2007DK00052	20070201

Probable Assignee: COLOPLAST AS**Assignee(s):** (std): COLOPLAST AS ; FREDERIKSEN JESPER MAD S BARTRO ; JEPSEN ERIK LUND ; LARSEN TRUELS STERM ; HVID NIELS ; NIELSEN BRIAN ; FREDERIKSEN JESPER MAD S BARTROFF ; BUDIG KLAUS**Assignee(s):** COLOPLAST A S**Inventor(s):** (std): BARTRO FREDERIKSEN JESPER MAD S ; BARTROFF FREDERIKSEN JESPER MA ; BARTROFF FREDERIKSEN JESPER MAD S ; BRIAN NIELSEN ; BUDIG KLAUS ; FREDERIKSEN JESPER MAD S BARTRO ; FREDERIKSEN JESPER MAD S BARTROFF ; HVID NIELS ; JEPSEN ERIK LUND ; KLAUS BUDIG ; LARSEN TRUELS STERM ; LUND JEPSEN ERIK ; NIELS HVID ; NIELSEN BRIAN ; STERM LARSEN TRUELS**Inventor(s):** TRUELS STERM LARSEN ; JESPER MAD S BARTROFF FREDERIKSEN ; ERIK LUND JEPSEN**Agent(s):** FB RICE ; FB RICE PTY LTD ; RIDOUT AND MAYBEE LLP ; INSPICOS A/S ; CHINA SINDA INTELLECTUAL PROPERTY LTD ; JACOBSON HOLMAN PLLC**Designated states:** 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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**64) Family number: 50908455** (US2013209134A)

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Title: DEVELOPER SUPPLY CONTAINER, DEVELOPER SUPPLYING SYSTEM AND IMAGE FORMING APPARATUS**Abstract:** Conventionally, when a developer is supplied into a developer receiving apparatus from a developer supply container using the air, a filter is provided in the developer receiving apparatus side, but the pressure feeding type wherein a mixture of the air and the developer is continuously fed from the developer supply container into the developer receiving apparatus side involves a problem of filter clogging. The developer supply container side is provided with a pump portion which effects a suction operation for moving the air from inside of the developer receiving portion to the developer accommodating portion side and a discharging operation for moving the air from the inside of the developer accommodating portion to the developer receiving portion side. By this, a back washing effect of dusting the developer from the filter is applied to the filter portion during the suction operation, so that the clogging of the filter is suppressed.**Classifications:****International (IPC 8-9):** G03G G03G15/08 (Advanced/Invention)**CPC:** G03G15/0898 G03G15/08 G03G15/0875 G03G15/0877**European:** G03G15/08H33K G03G15/08H35**US:** 399/103 399/258**Family:**

Publication number	Publication date	Application number	Application date
AU2011308328 AA	20120405	AU20110308328	20110929
AU2011308328 BB	20150212	AU20110308328	20110929
BR112013007150 A2	20160614	BR20131107150	20110929
CA2812902 AA	20130327	CA20112812902	20110929
CA2812902 C	20190108	CA20112812902	20110929
CN103229110 A	20130731	CN201180057063	20110929
CN103229110 B	20170405	CN201180057063	20110929
DE112011103326 T5	20130704	DE201111103326T	20110929
EA029287 B1	20180330	EA20130090469	20110929
EA201390469 A1	20131030	EA20130090469	20110929
EP2624069 A1	20130807	EP20110829426	20110929
EP2624069 A4	20140604	EP20110829426	20110929
HK1185151 A1	20140207	HK20130112477	20131106
HK1185151 B	20180329	HK20130112477	20131106
IN03107CN2013 A	20160603	IN2013CN03107	20130422
JP2012093736 A2	20120517	JP20110213058	20110928
JP5836736 B2	20151224	JP20110213058	20110928
KR101875985 B1	20180706	KR20137010097	20110929
KR20130118872 A	20131030	KR20137010097	20110929
MX2013003570 A1	20130528	MX20130003570	20110929
RU2013119614 A	20141110	RU20130119614	20110929
RU2573044 C2	20160120	RU20130119614	20110929
US2013209134 AA	20130815	US20130836539	20130315
WO12043876 A1	20120405	WO2011JP73029	20110929

Priority:

JP20100219485 20100929

JP20110213058 20110928

WO2011JP73029 20110929

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK ; MURAKAMI KATSUYA ; NAGASHIMA TOSHIKI ; YAMADA YUSUKE ; TAZAWA FUMIO ; OKINO AYATOMO

Assignee(s): KEHNON KABUSIKI KAJISA ; CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s): (std): NAGASHIMA TOSHIKI ; YAMADA YUSUKE ; TAZAWA FUMIO ; MURAKAMI KATSUYA ; OKINO AYATOMO ; OKINO NORITOMO ; TAZAWA BUNRO ; MURAKAMI TAKEYA ; OKINO AJATOMO ; JAMADA JUSUKE ; TAZAWA FUMIO ; MURAKAMI KATSUYA ; NAGASHIMA TOSHIKI

Inventor(s): FUMIO TAZAWA ; TOSHIKI NAGASHIMA ; KATSUYA MURAKAMI ; AYATOMO OKINO ; YUSUKE YAMADA

Agent(s): SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP; TBK; DEACONS; YAMADA RYUICHI

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 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 QA RO RS RU RW 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

65) Family number: 54823465 (US2013251552A)

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Title: ENERGY EXTRACTION SYSTEM

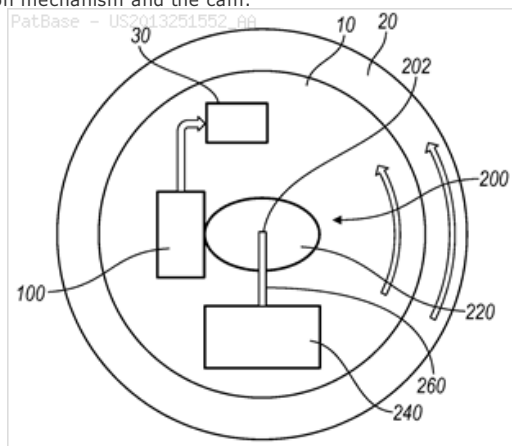
Abstract: An energy extraction system for a rotational surface including a drive mechanism having a rotational axis and configured to rotatably couple to the rotational surface and an energy extraction mechanism coupled to the drive mechanism. The drive mechanism includes a cam rotatable about the rotational axis and an eccentric mass coupled to the cam that offsets a center of mass of the drive mechanism from the rotational axis, the eccentric mass cooperatively formed by a first and a second section, the eccentric mass operable between a connected mode wherein the first and second sections are adjacent and a disconnected mode wherein the first and second sections are separated. The energy extraction mechanism is connected to the cam and is statically coupled to the rotating surface, wherein the energy extraction mechanism configured to extract energy from relative rotation between the energy extraction mechanism and the cam.

Classifications:

International (IPC 8-9): B01D19/00 B01D61/02 B01D61/08 B01D71/36 B60C23/00 B60C23/12 B60S5/04 C02F1/20 F03G3/06 F03G7/08 F04B17/00 F04B35/01 F04B39/16 F04B41/02 F04B43/12 F04B49/06 F04B49/08 F04B49/22 F04B9/04 F04C25/00 F04D29/00 F16F15/14 F16H25/08 F17D3/00 G05D7/06 H02K7/18 (Advanced/Invention)

CPC: F04C25/00 F16H25/08 B01D19/0031 C02F1/20 B60C23/00 B60C23/001 B60C23/003 B01D61/025 B01D71/36 F04B39/16 F04B41/02 G05D7/0617 F04B49/22 F04B49/065 B60C23/12 B60S5/043 F03G7/08 F04B9/04 F04B9/042 F04B9/045 F04B17/00 F04B35/01 F04B49/06 F04B49/08 F16F15/1485 F17D3/00 H02K7/18 H02K7/1846 Y10T74/2107 Y10T74/2117 Y10T74/2128 Y10T137/86002 F03G3/06

US: 1/1 137/1 137/565.13 141/4 152/415 152/418 290/1R 417/221 417/223 417/321 417/328 417/413.1 417/53 74/569 74/572.1 74/574.2 95/46 96/6



Family:

Publication number	Publication date	Application number	Application date
BR112014022974 A2	20170620	BR20141122974	20130312
BR112014022974 A8	20170718	BR20141122974	20130312
CN104254452 A	20141231	CN201380015057	20130312
CN104254452 B	20170707	CN201380015057	20130312
CN105163833 A	20151216	CN201480024541	20140311
CN105163833 B	20170222	CN201480024541	20140311
DE602013017708 D1	20170330	DE201360017708T	20130312
DE602014021304 D1	20180322	DE201460021304T	20140311
EP2828103 A1	20150128	EP20130763929	20130312
EP2828103 A4	20151118	EP20130763929	20130312
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EP2969148 A1	20160120	EP20140779011	20140311
EP2969148 A4	20161123	EP20140779011	20140311
EP2969148 B1	20180221	EP20140779011	20140311
ES2619629 T3	20170626	ES20130763929T	20130312
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PL2828103 T3	20170929	PL20130763929T	20130312
PL2969148 T3	20180731	PL20140779011T	20140311
TR201703951 T4	20170421	TR20170003951T	20130312
TR201805206 T4	20180424	TR20180005206T	20140311
US2013251552 AA	20130926	US20130797811	20130312
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US2014000755 AA	20140102	US20130019941	20130906
US2014000756 AA	20140102	US20130020250	20130906
US2014003969 AA	20140102	US20130019899	20130906
US2014010680 AA	20140109	US20130019885	20130906
US2014093402 AA	20140403	US20130797846	20130312
US2014186195 AA	20140703	US20140198967	20140306
US2014260969 AA	20140918	US20140204674	20140311
US2015367693 AA	20151224	US20150839009	20150828
US2015369219 AA	20151224	US20150838981	20150828
US2016008739 AA	20160114	US20150863119	20150923

US2017015159 AA	20170119	US20160280737	20160929
US2019047339 AA	20190214	US20180161771	20181016
US9039386 BB	20150526	US20140198967	20140306
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US9080565 BB	20150714	US20130019885	20130906
US9121401 BB	20150901	US20130020250	20130906
US9145887 BB	20150929	US20130019899	20130906
US9151288 BB	20151006	US20130019941	20130906
US9222473 BB	20151229	US20130797846	20130312
US9604157 BB	20170328	US20140204674	20140311
US10144254 BB	20181204	US20160280737	20160929
WO13142158 A1	20130926	WO2013US30604	20130312
WO14164794 A1	20141009	WO2014US23499	20140311

Priority:

US20120613406P	20120320	US20120637206P	20120423	US20120469007	20120510
US20120672223P	20120716	EP20130763929	20130312	US20130797826	20130312
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WO2013US30604	20130312	US20130019941	20130906	US20130020250	20130906
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Probable Assignee: APERIA TECHNOLOGIES INC

Assignee(s): (std): APERIA TECH ; APERIA TECH INC ; APERIA TECHNOLOGIES ; APERIA TECHNOLOGIES INC ; APERIA TECHNOLOGIES INC

Assignee(s): APERIA TECHNOLOGIES INC SOUTH SAN FRANCISCO ; APERIA TECHNOLOGIES SOUTH SAN FRANCISCO

Inventor(s): (std): CARLBERG DAVE ; CARLBERG DAVID ; RICHARDSON BRANDON ; SHELANDER ACE ; SHELANDER AGUSTUS

Inventor(s): SHELANDER ACE SOUTH SAN FRANCISCO ; RICHARDSON BRANDON SOUTH SAN FRANCISCO ; DAVE CARLBERG ; CARLBERG DAVE SOUTH SAN FRANCISCO ; ACE SHELANDER ; BRANDON RICHARDSON

Agent(s): STANNERS DAVID RALPH; DE ELZABURU ALBERTO; UGUR GUERSAD YALCINER; JEFFREY; DIANA; SCHOX JEFFREY; LIN DIANA

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

66) Family number: 22028465 (US2633684A)

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Title: APPARATUS FOR PACKAGING IN A CONTROLLED ATMOSPHERE

Abstract: (Claim 1) 1. Apparatus for packaging comprising: mechanism for passilg webs of f-flexible, heat sealable material along predetermined juxtaposed paths; means for depositing between said webs measured charges of a product to be packaged; sealing means operative subsequent to the operation of said product depositing nieans adapted to seal said webs herinetically togethe-. around said charges; an enclosure for at least sad sealing means; siibstantially hermetic entrance and exit seals for said enclosure, said seals permitting, resnectively, ingress and egress for said webs; means for coitrolling the atinosphere within said enclosure and thereby between said webs and around said charges; the atmOsDhere with,.n said enclosure being so controlled as to be differentiated from the atmosphere of the room in which the apparatus is operated.

Classifications:

International (ipc 8-9): B65B31/02 B65B9/02 (Advanced/Invention);

B65B31/02 B65B9/00 (Core/Invention)

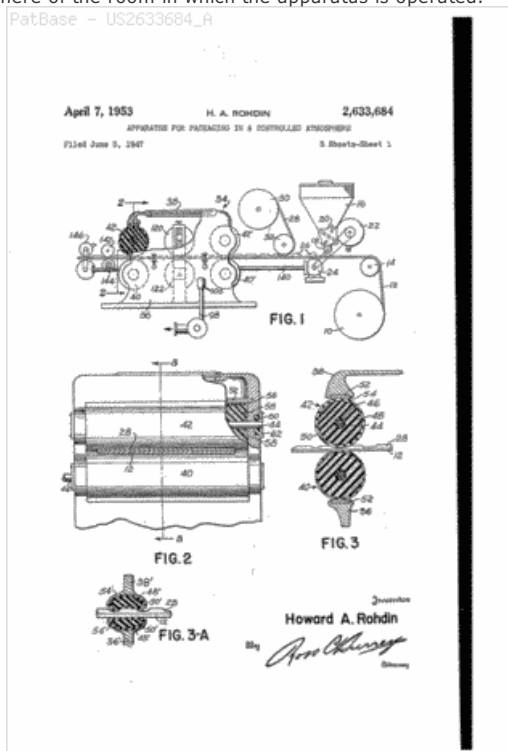
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CPC: B65B9/02 B65B31/02

European: B65B31/02 B65B9/02

US: 34/242 493/205 53/511 53/548

PatBase - US2633684_A



Family:

Publication number	Publication date	Application number	Application date
US2633684 A	19530407	US19470752773	19470605

Priority:

US19470752773 19470605

Probable Assignee:

ROHDIN HOWARD A

Assignee(s): (std):

ROHDIN HOWARD A

Inventor(s): (std):

ROHDIN HOWARD A

67) Family number: 31844467 (WO05036985A1)

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Title: IMPROVED NIXTAMALIZATION METHOD AND DEVICE AND DIFFERENT USES THEREOF

Abstract: The invention relates to an improved method and device for the nixtamalisation or baking of food products. The inventive method comprises the following steps: application of a vacuum in order to open the pores of the product that is to be baked; impregnation of the product with water, calcium and microelements under pressure; baking of said product using a high pressure and temperature; and, optionally, vacuum dehydration of same. The aforementioned method is performed in a device comprising a vacuum system, a pressure system and a heating system. According to the invention, the vacuum system is used to produce a vacuum in a container of the heating system in order to open the pores of the product that is to be baked, such that the elements to be absorbed by said product penetrate same by means of osmosis. In this way, the invention is environmentally friendly and provides significant savings in terms of time, water and energy, thereby reducing contaminant waste.

Classifications:

International (IPC 8-9): A21D13/00 A21D2/02 A21D6/00 A21D8/06 A23B9/00 A23L1/01 A23L1/10 A23L1/164

A23L3/015 (Advanced/Invention);

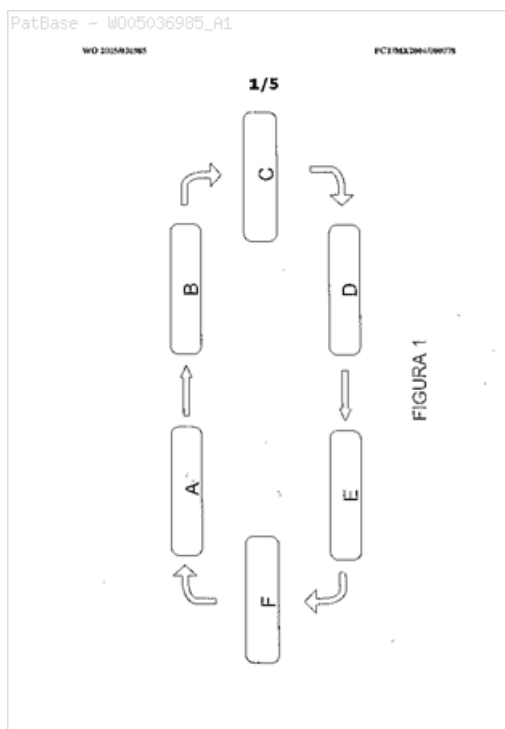
A21D13/00 A21D2/00 A21D6/00 A21D8/00 A23B9/00 A23L1/01 A23L1/10 A23L1/164 A23L3/015 (Core/Invention)

International (IPC 1-7): A21D13/00 A23B9/00 A23L1/00 A23L1/01 A23L1/10 A23L1/164 A23L3/015

CPC: A23L5/17 A23L7/117 A23L7/197 A23L7/1975 A23L7/198

A23B9/005 A21D2/02 A21D6/00 A21D8/06 A23L3/0155

European: A21D2/02 A21D6/00 A21D8/06 A23B9/00T A23L1/01H A23L1/10H A23L1/10H2 A23L1/10M A23L1/164 A23L3/015F

**Family:**

Publication number	Publication date	Application number	Application date
MXPA03009659 A1	20050426	MX2003PA09659	20031022
WO05036985 A1	20050428	WO2004MX00078	20041019

Priority:

MX2003PA09659 20031022

Probable Assignee: CARLOS CUMMINGS IBARRA

Assignee(s): (std): CARLOS CUMMINGS IBARRA ; CUMMINGS IBARRA CARLOS ; GALLEGO OCHOA MIGUEL ; LECUONA RIVERA FERNANDO ; MORALES BOLIO JOAQUIN

Inventor(s): (std): CUMMINGS IBARRA CARLOS ; GALLEGO OCHOA MIGUEL ; LECUONA RIVERA FERNANDO ; MORALES BOLIO JOAQUIN ; MIGUEL GALLEGO OCHOA

Designated states: 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 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

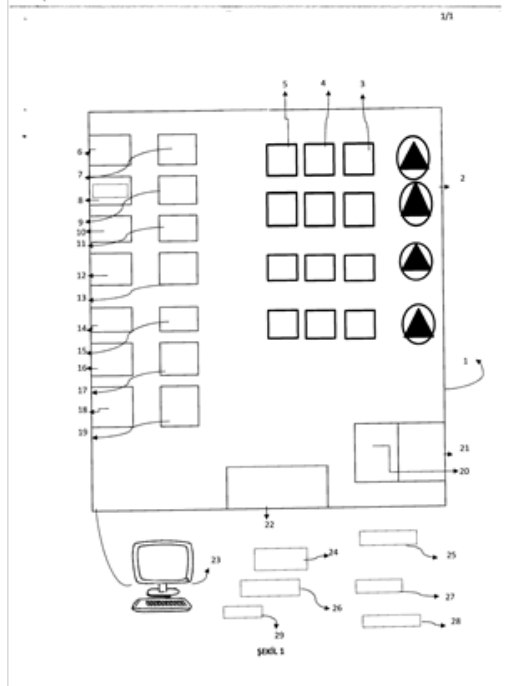
68) Family number: 53182477 (US2014169836A)

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Title: DEVELOPER SUPPLY CONTAINER AND DEVELOPER SUPPLYING SYSTEM

Abstract: A developer supply container includes a developer accommodating portion for accommodating developer; a discharge opening for discharging the developer from said developer accommodating portion; a pump portion capable of changing an internal pressure of said developer accommodating portion so as to discharge the developer through said discharge opening; a venting portion for permitting venting between an inside and an outside of said developer

US: 1/1 399/258

**Family:**

Publication number	Publication date	Application number	Application date
TR201501755 A2	20151123	TR20150001755	20150213
TR201501755 B	20171121	TR20150001755	20150213

Priority:

TR20150001755 20150213

Probable Assignee: ROLEKS ELEKTROMEKANIK VE SERVIS HIZ SAN TIC LTD STI**Assignee(s):** ROLEKS ELEKTROMEKANIK VE SERVIS HIZ SAN TIC LTD STI**Inventor(s):** EROL YESIR**Agent(s):** ERKAN AKKAS UZUNCAYIR CAD NO 51 HASANPASA KADIKOY ISTANBUL; ERKAN AKKAS; ERKAN AKKAS UZUNCAYIR CAD NO 51 2 HASANPASA KADIKOY ISTANBUL**70) Family number: 12525485 (EP0910148A1)**

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Title: Process and device for preventing a short-circuit in cable sleeves

Abstract: The method involves removing water from the electrical connection pints in the cable joint box (8, 9). Water is collected at a collection point (7) in the box and the water is at least partially removed from the box. The collection point is sufficiently remote from the connection points and is formed by suitable shaping of the box.

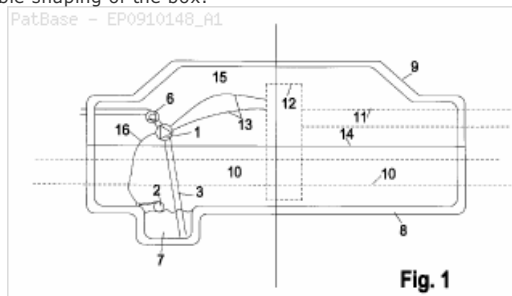
Classifications:

International (IPC 8-9): H02G15/10 H02G15/26 (Advanced/Invention);
H02G15/00 H02G15/10 (Core/Invention)

International (IPC 1-7): H02G15/10 H02G15/26

CPC: H02G15/10 H02G15/26

European: H02G15/10 H02G15/26

**Family:**

Publication number	Publication date	Application number	Application date
EP0910148 A1	19990421	EP19970116823	19970926

Priority:

EP19970116823 19970926

Probable Assignee: JORDAN PAUL ELTECH**Assignee(s):** JORDAN PAUL ELTECH**Assignee(s):** PAUL JORDAN ELEKTROTECHNISCHE FABRIK**Inventor(s):** (std) PFEIFFER BERNHARD DR ; SCHULZ BARBARA**Designated states:** BE CH DE DK FR GB IT LI NL SE**71) Family number: 34574487 (US4211207A)**

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Abstract: A combined heating and cooling system includes a solar collector and evaporator for absorbing heat from solar radiation and/or the ambient air and for using the absorbed heat to evaporate a binary-phase, liquid-vapor working fluid. In the heating mode, whenever the temperature of the working fluid inside the evaporator of the solar collector is sufficiently higher than that of the medium to be heated, the working fluid follows a cycle similar to the Rankine cycle in which the heat engine is eliminated. Whenever the temperature of the working fluid inside the evaporator is no longer high enough for heat to be transferred unassisted to the medium to be heated, the working fluid is made to follow a heat-pump cycle. Finally, whenever the temperature of the working fluid in the evaporator falls below the temperature of the surrounding air, the evaporator is exposed to the ambient air and the system runs as an air-source heat pump. In the cooling mode, the system is run as a vapor-compression refrigeration cycle in which the compressor is selectively powered by the use of a solar-assisted Rankine power cycle. Means are also disclosed for cycle selection and control utilizing the equilibrium radiation temperature of the solar collector and evaporator.

Classifications:

International (IPC 8-9): F01L3/12 F01P11/02 F01P3/22 F02B29/04 F03G6/00 F24J2/20 F24J2/44 F24S10/50

F25B23/00 (Advanced/Invention);

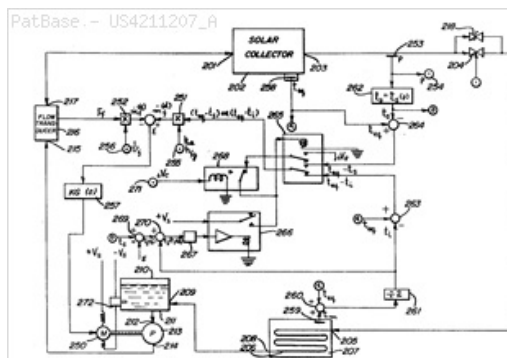
F01L3/00 F01P11/00 F01P3/22 F02B29/00 F03G6/00 F24J2/04 F24J2/42 F25B23/00 (Core/Invention)

International (IPC 1-7): F01P3/22 F03G7/02 F24J3/02 F28D15/00 F28D15/02 F28F27/00

CPC: Y02T10/146 F01P3/22 F01L3/12 F01P11/02 F02B29/0443 F02B29/0475 F02F2007/0092 F25B23/006 F24S10/503 F24S10/504 F24S90/10 Y02B10/20 F28D15/0266 F03G6/003 Y02E10/44 Y02E10/46

European: F01L3/12 F01P11/02 F01P3/22 F02B29/04B8L F02B29/04D8 F03G6/00R F24J2/20D F24J2/20E F24J2/44 F25B23/00C F28D15/02M R02F7/00G5 Y02B10/20 Y02E10/44 Y02E10/46

US: 123/41.2 123/41.21 123/41.25 123/41.26 123/412 126/421 126/433 126/572 126/584 126/587 126/588 126/590 126/591 126/635 126/636 126/640 126/643 126/644 126/714 165/104.14 165/104.21 165/104.22 165/104.25 165/104.27 165/104.32 165/272 165/299 165/300 165/32 165/39 165/40 165/47 237/2.00B 237/2B 60/641.8 60/660 60/667

**Family:**

Publication number	Publication date	Application number	Application date
AU199220235 A1	19921221	AU19920020235	19920311
US4211207 A	19800708	US19740457271	19740402
US4340030 A	19820720	US19780902950	19780505
US4358929 A	19821116	US19800144275	19800428
US5333677 A	19940802	US19890400738	19890830
US6866092 BA	20050315	US19930112204	19930826
WO9219851 A2	19921112	WO1992US01654	19920311
WO9219851 A3	19930121	WO1992US01654	19920311

Priority:

US19740457271	19740402	US19780902950	19780504	US19780902950	19780505
US19800144275	19800428	US19810235980	19810219	US19810252206	19810408
US19820361784	19820325	US19820362148	19820326	US19820374707	19820504
US19860815642	19860102	US19890400738	19890830	US19910696853	19910507
WO1992US01654	19920311	US19930112204	19930826		

Probable Assignee: MOLIVADAS STEPHEN

Assignee(s): (std): MOLIVADAS STEPHEN ; STEPHEN MOLIVADAS

Inventor(s): (std): MOLIVADAS STEPHEN

Inventor(s): STEPHEN MOLIVADAS

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN TD TG US

72) Family number: 47023516 (US2012014722A)

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Title: DEVELOPER SUPPLY CONTAINER AND DEVELOPER SUPPLYING SYSTEM

Abstract: Conventionally, the developer in the developer supply container is discharged by an air-supply pump and a suction pump which are provided in the main assembly side of the image forming apparatus, and therefore, the developer is compacted by the increase of the internal pressure of the developer supply container resulting from the air-supply. Therefore, the proper suction of the developer from the developer supply container becomes difficult with the result of shortage of the developer amount to be supplied. A bellows-like pump is provided on the side of the developer supply container, and the pump alternately repeats the suction operation and the discharging operation through the discharge opening by a driving force inputted from the image forming apparatus side. By this, the developer can be sufficiently loosened, thus properly discharging the developer.

Classifications:

International (IPC 8-9): B65D83/06 F04B43/00 G03G G03G15/06 G03G15/08 G03G9/08 (Advanced/Invention);

B41J2/00 B41J29/00 G03G15/00 (Core/Invention);

G03G15/08 (Core/Non-invention);

G03G (Subclass/Invention)

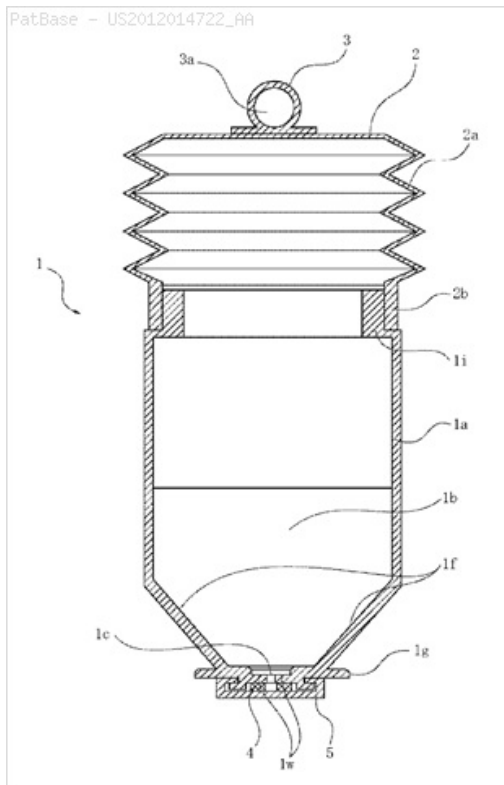
International (IPC 1-7): G03G15/08

CPC: G03G15/0877 G03G15/0867 G03G15/0865 G03G2215/0802

G03G15/0808 G03G15/08 G03G15/0849 G03G15/0887

European: G03G15/08H35 G03G15/08H3D

US: 1/1 399/262 399/262P

**Family:**

Publication number	Publication date	Application number	Application date
AU2010232165 AA	20101007	AU20100232165	20100330
AU2014202684 AA	20140612	AU20140202684	20140516
AU2014202684 BB	20150820	AU20140202684	20140516
AU2015205893 AA	20150820	AU20150205893	20150723
AU2015205893 BB	20160526	AU20150205893	20150723
AU2016216686 AA	20160908	AU20160216686	20160819
AU2016216686 BB	20180809	AU20160216686	20160819
AU2018253609 AA	20181122	AU20180253609	20181026
BR122015017781 A2	20160510	BR20151217781	20100330
BRPI1014731 A2	20160412	BR2010PI14731	20100330
CA2757332 AA	20101007	CA20102757332	20100330
CA2757332 C	20180403	CA20102757332	20100330
CA2891998 AA	20101007	CA20102891998	20100330
CA2891998 C	20171205	CA20102891998	20100330
CA2892185 AA	20101007	CA20102892185	20100330
CA2892185 C	20171205	CA20102892185	20100330
CA2995963 AA	20101007	CA20102995963	20100330
CN102449558 A	20120509	CN201080022874	20100330
CN102449558 B	20140827	CN201080022874	20100330
CN104238312 A	20141224	CN201410397848	20100330
CN104238313 A	20141224	CN201410397852	20100330
CN104238314 A	20141224	CN201410398210	20100330
CN104238314 B	20190115	CN201410398210	20100330
CN104238315 A	20141224	CN201410398228	20100330
CN104238316 A	20141224	CN201410398645	20100330
DE112010001464 T5	20120614	DE201011001464T	20100330
DE602010052883 D1	20180913	DE201060052883T	20100330
DK2966511 T3	20181126	DK20150173073T	20100330
EA024828 B1	20161031	EA20110071192	20100330
EA029787 B1	20180531	EA20160090279	20100330
EA201171192 A1	20120430	EA20110071192	20100330
EA201690279 A2	20160630	EA20160090279	20100330
EA201690279 A3	20161031	EA20160090279	20100330
EP2416223 A1	20120208	EP20100758918	20100330
EP2416223 A4	20130109	EP20100758918	20100330
EP2966510 A1	20160113	EP20150173072	20100330
EP2966511 A1	20160113	EP20150173073	20100330
EP2966511 B1	20180815	EP20150173073	20100330
EP2966512 A1	20160113	EP20150173075	20100330
ES2690244 T3	20181120	ES20150173073T	20100330
HK1165565 A1	20121005	HK20120106278	20120627
HK1165565 A1	20150327	HK20120106278	20120627
HK1165565 B	20150327	HK20120106278	20120627
HK1202644 A1	20151002	HK20150102977	20150324
HK1202645 A1	20151002	HK20150102978	20150324
HK1202646 A1	20151002	HK20150102979	20150324
HK1202647 A1	20151002	HK20150102980	20150324

HK1202648 A1	20151002	HK20150102981	20150324
HR20181812 T1	20181228	HR20180001812	20181031
IN07038CN2011 A	20121228	IN2011CN07038	20110929
IN303063 B	20181116	IN2011CN07038	20110929
JP2010256894 A2	20101111	JP20100078294	20100330
JP2015028650 A2	20150212	JP20140189088	20140917
JP2016028296 A2	20160225	JP20150197972	20151005
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JP5623109 B2	20141112	JP20100078294	20100330
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KR20150043526 A	20150422	KR20157008293	20100330
KR20150043527 A	20150422	KR20157008294	20100330
MX2011010251 A1	20111011	MX20110010251	20100330
MX336095 B	20160108	MX20150008493	20110929
MX336098 B	20160108	MX20150008490	20110929
MX349187 B	20170717	MX20160000067	20100330
MY160050 A	20170215	MY20110004633	20100330
PL2966511 T3	20190131	PL20150173073T	20100330
RU2011143798 A	20130810	RU20110143798	20100330
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RU2657346 C1	20180613	RU20170111211	20170404
SI2966511 T1	20181030	SI20100031751T	20100330
TR201816169 T4	20181121	TR20180016169T	20100330
TW201102772 A	20110116	TW20100109802	20100330
TW201413403 A	20140401	TW20130147756	20100330
TW201546578 A	20151216	TW20150115240	20100330
TW201812488 A	20180401	TW20170121123	20100330
TWI494715 B	20150801	TW20130147756	20100330
TWI550368 B	20160921	TW20100109802	20100330
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TWI643039 B	20181201	TW20170121123	20100330
UA103919 C2	20131210	UA20110102684	20100330
US2012014722 AA	20120119	US20110246293	20110927
US2015277285 AA	20151001	US20150737646	20150612
US9229368 BB	20160105	US20110246293	20110927
US10191412 BB	20190129	US20150737646	20150612
VN16624 A1	20170425	VN20110002839	20100330
WO10114154 A1	20101007	WO2010JP56134	20100330

Priority:

JP20090082077	20090330	AU20100232165	20100330	BR2010PI14731	20100330
CN201080022874	20100330	CN201080022874	20100330	CA20102757332	20100330
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EP20150173073	20100330	US20110246293	20110927	AU20140202684	20140516
JP20140189088	20140917	CA20152757332	20150527	CA20152757332	20150528
US20150737646	20150612	AU20150205893	20150723	JP20150197972	20151005
AU20160216686	20160819	JP20160242525	20161214	CA20182757332	20180302
AU20180253609	20181026				

Probable Assignee: CANON INC

Assignee(s): (std): CANON KK ; NAGASHIMA TOSHIKI ; TAZAWA FUMIO ; MURAKAMI KATSUYA ; OKINO AYATOMO ; KENON KK ; YAMADA YUSUKE

Assignee(s): KENON KABUSIKI KAJSYA ; CANON INC ; CANON KABUSHIKI KAISHA ; CANON KABUSIKI KAISHA ; KEHNON KABUSIKI KAJSYA

Inventor(s): (std): AYATOMO OKINO ; FUMIO TAZAWA ; KATSUYA MURAKAMI ; MURAKAMI KATSUYA ; MURAKAMI TAKEYA ; NAGASHIMA TOSHIKI ; OKINO AYATOMO ; OKINO NORITOMO ; TAZAWA BUNRO ; TAZAWA FUMIO ; TOSHIKI NAGASHIMA ; YAMADA YUSUKE ; YUSUKE YAMADA ; TAZAWA FUMIO ; OKINO AYATOMO ; NAGASHIMA TOSHIKI ; MURAKAMI KATSUYA ; YAMADA YUSUKE

Agent(s): SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP; TBK; DEACONS; OOO YURIDICHESKAYA GORODISSKIY I PARTNERLY FA; MEHMET NAZIM AYDIN DERIS; FITZPATRICK CELLA HARPER AND SCINTO; VENABLE LLP; YAMADA RYUICHI

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 HW HN HR HU ID IE IL IN IS IT 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 TN TR TT TZ UA UG US UZ VN ZA ZM ZW

73) Family number: 64383522 (US2018162986A)

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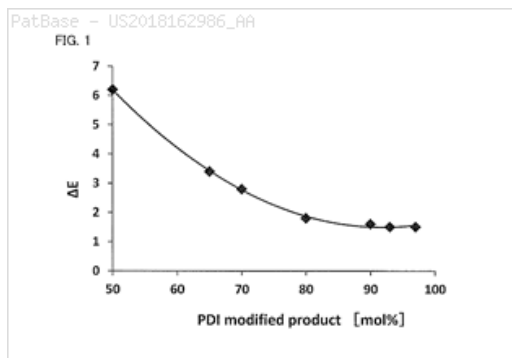
Title: POLYISOCYANATE COMPOSITION, POLYURETHANE RESIN, TWO-COMPONENT CURABLE POLYURETHANE COMPOSITION, AND COATING MATERIAL

Abstract: A polyisocyanate composition contains a modified product of xylylene diisocyanate and a modified product of pentamethylene diisocyanate, and/or a modified product of the xylylene diisocyanate and the pentamethylene diisocyanate. The ratio of the pentamethylene diisocyanate with respect to the total amount of the xylylene diisocyanate and the pentamethylene diisocyanate is 60 mol percent or more and 95 mol percent or less.

Classifications:

International (IPC 8-9): C08G18/02 C08G18/09 C08G18/16 C08G18/18 C08G18/24 C08G18/32 C08G18/34 C08G18/62 C08G18/72 C08G18/73 C08G18/76 C08G18/78 C08G18/79

C08G18/80 C09D175/04 (Advanced/Invention)
CPC: C08G18/73 C08G18/7642 C08G18/242 C08G18/348
C09D175/04 C08G18/022 C08G18/092 C08G18/161 C08G18/168
C08G18/1875 C08G18/6216 C08G18/724 C08G18/792 C08G18/794
C08G18/795 C08G18/8019 C08G18/8064



Family:

Publication number	Publication date	Application number	Application date
CN107614561 A	20180119	CN201680033130	20160608
EP3309188 A1	20180418	EP20160807498	20160608
EP3309188 A4	20190123	EP20160807498	20160608
ID201806173 A	20180629	ID2017P0008811	20160608
IN201717043972 A	20180105	IN201717043972	20171207
JP2016199792 A1	20180426	JP20170523661T	20160608
KR20180005691 A	20180116	KR20177035461	20160608
TW201706326 A	20170216	TW20160118332	20160608
US2018162986 AA	20180614	US20160580997	20160608
WO16199792 A1	20161215	WO2016JP66994	20160608

Priority:

JP20150119354 20150612 WO2016JP66994 20160608

Probable Assignee: MITSUI CHEMICALS INC

Assignee(s): (std): MITSUI CHEMICALS INC

Inventor(s): (std): KIYONO SHINJI ; MORITA HIROKAZU ; NAKAGAWA AYA ; NAKAGAWA TOSHIHIKO ; YAMASAKI SATOSHI

Agent(s): HOFFMANN EITL; IR YT WIDJOJO; OKAMOTO HIROYUKI ET AL

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

74) Family number: 50792526 (US2012067300A)

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Title: HEATING OR COOLING SYSTEM FEATURING A SPLIT BUFFER TANK

Abstract: This invention relates to a heating/cooling system operating on the basis of a novel SPLIT BUFFER TANK; representing an efficiency improvement alternative to HVAC systems functioning with existing commercial buffer tanks. Currently, commercial buffers have the heat source provider (HSP)-return and system-return discharging to a common buffer/vessel. Novel SPLIT BUFFER is provided with a SEPARATION DISK placed inside the tank as mechanical way of separating the hot water inflow from the HSP from the warmer water inflow from system return. The disk moves up and down along the tank driven by demanded water supply and return. Pump-1 circulates hot water from the hot section of the buffer to the secondary system claiming for heat. Pump-2 circulates warmer water from the warmer section of the buffer through the HSP where it is reheated, and subsequently stored in the hot section of the buffer to reinitiate this cycle again.

Classifications:

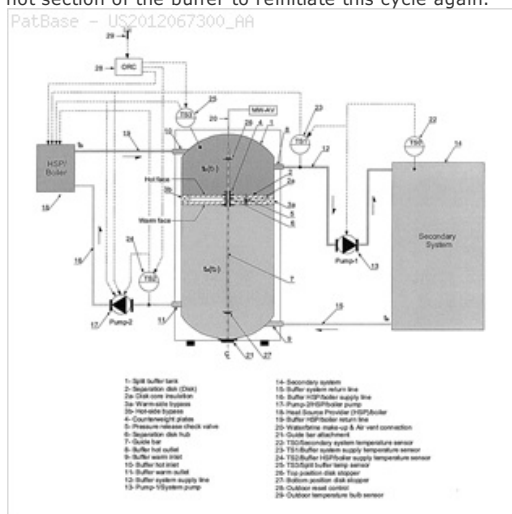
International (IPC 8-9): F24D11/00 F24D11/02 F24H9/02 F24H9/12 F24H9/20 F24J2/04 F28D20/00 (Advanced/Invention)

CPC: F24D11/004 F24D11/0228 F24D2200/11 F24D2200/12

F24H9/124 F28D20/0039 F28D2020/0095 Y02B10/40 Y02B10/70

Y02E60/142 Y02B30/125

US: 122/14.3 122/14.300P 122/19.1 122/19.2 122/19.200S 126/640 392/450 62/235.1



Family:

Publication number	Publication date	Application number	Application date
US2012067300 AA	20120322	US20100887141	20100921
US8997511 BB	20150407	US20100887141	20100921

Priority:

Probable Assignee: BERRIO DENERING
Assignee(s): (std): BERRIO DENERING
Inventor(s): (std): BERRIO DENERING
Agent(s): KYLE R; ADE AND CO INC; RYAN W

75) Family number: 64383530 (US2018179317A)

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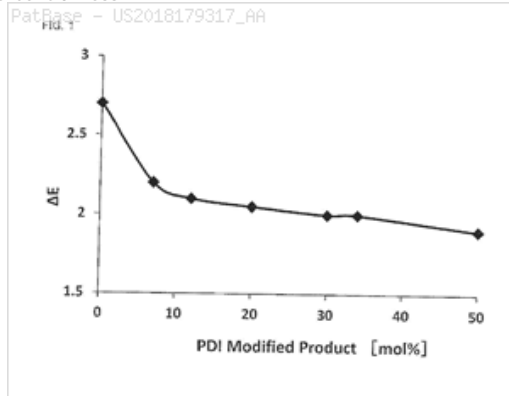
Title: POLYISOCYANATE COMPOSITION, POLYURETHANE RESIN, TWO-COMPONENT CURABLE POLYURETHANE COMPOSITION, AND COATING MATERIAL

Abstract: A polyisocyanate composition contains a modified product of xylylene diisocyanate and a modified product of pentamethylene diisocyanate, and/or a modified product of the xylylene diisocyanate and the pentamethylene diisocyanate. The ratio of the pentamethylene diisocyanate with respect to the total amount of the xylylene diisocyanate and the pentamethylene diisocyanate is 5 mol percent or more and 40 mol percent or less.

Classifications:

International (IPC 8-9): C08G18/02 C08G18/09 C08G18/16 C08G18/18 C08G18/24 C08G18/32 C08G18/62 C08G18/72 C08G18/73 C08G18/76 C08G18/78 C08G18/79 C08G18/80 C09D175/04 (Advanced/Invention)

CPC: C08G18/73 C08G18/09 C09D175/04 C08G18/022 C08G18/092 C08G18/161 C08G18/168 C08G18/1875 C08G18/242 C08G18/6216 C08G18/724 C08G18/7642 C08G18/792 C08G18/794 C08G18/795 C08G18/8019 C08G18/8064

**Family:**

Publication number	Publication date	Application number	Application date
CN107709397 A	20180216	CN201680033060	20160608
EP3309189 A1	20180418	EP20160807500	20160608
EP3309189 A4	20190123	EP20160807500	20160608
JP2016199794 A1	20180426	JP20170523663T	20160608
TW201706325 A	20170216	TW20160118330	20160608
US2018179317 AA	20180628	US20160735047	20160608
WO16199794 A1	20161215	WO2016JP66996	20160608

Priority:

JP20150119353 20150612 WO2016JP66996 20160608

Probable Assignee: MITSUI CHEMICALS INC

Assignee(s): (std): MITSUI CHEMICALS INC

Inventor(s): (std): KIYONO SHINJI ; MORITA HIROKAZU ; NAKAGAWA AYA ; NAKAGAWA TOSHIHIKO ; YAMASAKI SATOSHI

Agent(s): HOFFMANN EITEL; OKAMOTO HIROYUKI ET AL

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

76) Family number: 44240538 (WO11015190A2)

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Title: DEVICE AS A SYSTEM SET, TRAVEL UNIT, FOR THE PERSONAL POSSIBILITY OF DRY AND MOIST BODY HYGIENE REGARDLESS OF LOCATION, IN PARTICULAR ON TRIPS

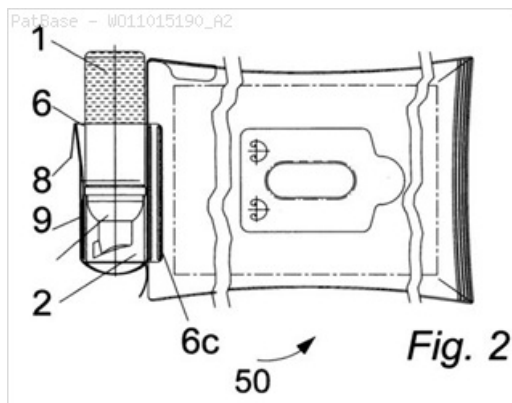
Abstract: The invention relates to a device (50) as a system set, travel unit, for the personal possibility of dry and moist body hygiene regardless of location, in particular on trips, the device being characterized in that the device (50) comprises two separate assemblies, namely a moistening unit and a hygienic paper unit, which are joined to form a transport unit, wherein cleaning fluid can be withdrawn from the moistening unit and hygienic paper can be withdrawn from the hygienic paper unit.

Classifications:

International (IPC 8-9): A45D34/06 A45D44/00 A47K10/20 A47K10/32 B65D81/32 (Advanced/Invention)

CPC: A45D34/06 A45D40/24 A45D2200/057 A45D2200/1027 A45D2200/25 A47K2010/328 B05B7/0018 B05B11/30 B65D81/32

European: A45D34/06 A45D40/24 B65D81/32 K45D200/05H6 K45D200/10B4 K45D200/25 K47K10/32W1A L05B11/30 L05B7/00C



Family:

Publication number	Publication date	Application number	Application date
DE112010003208 A5	20120802	DE201011003208T	20100804
DE202009010543 U1	20100107	DE200920010543U	20090804
WO11015190 A2	20110210	WO2010DE000915	20100804
WO11015190 A3	20110421	WO2010DE000915	20100804

Priority:

DE200920010543U 20090804 DE201011003208T 20100804 WO2010DE00915 20100804

Probable Assignee: NEUENDORF RONALD

Assignee(s): (std): NEUENDORF RONALD

Assignee(s): NEUENDORF

Inventor(s): (std): NEUENDORF RONALD

Agent(s): CLEMENS GERHARD 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 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

77) Family number: 32195542 (US2005217314A)

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Title: APPARATUS AND METHODS FOR PROCESSING HYDROCARBONS TO PRODUCE LIQUIFIED NATURAL GAS

Abstract: An apparatus for and process for recovering LNG from reservoir natural gas which includes circulating a portion of the natural gas thru a gas cooling loop that includes heat exchangers, an expansion zone and compression zone. The process also includes removing liquids from the gas cooling loop, distilling those liquids to recover a distilled gas. The process also includes compressing and expanding various portions of the distilled gas and passing those portions thru heat exchangers shared with the gas cooling loop to effect heating/cooling as desired. The process also includes removing a portion of the LNG cooling loop as LNG product.

Classifications:

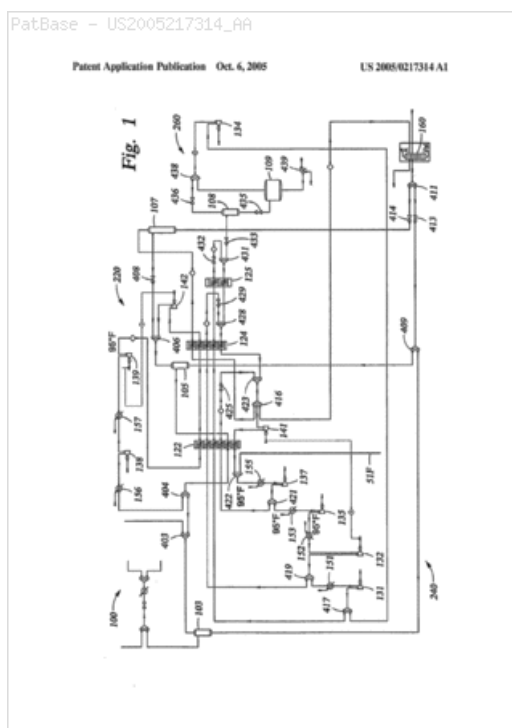
International (IPC 8-9): B65B1/04 B65B1/20 B65B1/28 B65B3/00 B65B3/18 B65B3/22 B67C3/00 F17C13/08 F17C3/04 F17C5/06 F17C6/00 F17C9/02 F17C9/04 F25D17/04 F25J1/00 F25J3/00 F25J3/02 F28D15/00 F28F13/14 (Advanced/Invention); F17C13/08 F17C3/00 F17C9/00 F25J1/00 F25J3/02 F28F13/00 (Core/Invention)

International (IPC 1-7): F17C9/02 F25J1/00

CPC: F17C3/04 F17C13/026 F17C2201/0157 F17C2201/035 F17C2201/052 F17C2203/0341 F17C2203/0617 F17C2203/0636 F17C2203/0678 F17C2205/0142 F17C2205/0146 F17C2227/0311 F17C2227/0316 F17C2227/044 F17C2250/0439 F17C2270/0105 F17C2270/0113 F17C2270/0123 F25J1/0022 F25J1/0035 F25J1/0037 F25J1/004 F25J1/0045 F25J1/0202 F25J1/0278 F25J3/0209 F25J3/0233 F25J3/0242 F25J2200/02 F25J2205/04 F25J2220/62 F25J2220/64 F25J2240/02 F25J2245/02 F25J2270/04 F25J2290/72 F17C2201/0104 F17C2203/0391 F17C2205/0111 F17C2205/013 F17C2227/041 F17C2260/033 F17C2270/011 F17C2270/0171 F17C2270/0173 F28B1/06 F28D5/02 F28F13/14 F28F13/0247 F17C2227/0313 F17C9/04 F17C5/06 F17C6/00 F17C9/02 F17C2221/033 F17C2223/0161 F17C2223/033 F17C2223/046 F17C2225/0123 F17C2225/033 F17C2225/035 F17C2227/0135 F17C2227/0323 F17C2227/0327 F17C2227/0332 F17C2227/0388 F17C2227/0393 F17C2265/05 F17C2270/0136 Y02E60/321

European: F17C13/02T F17C3/04 F17C5/06 F17C6/00 F17C9/02 F17C9/04 F25J1/00 F25J1/00A6 F25J1/00C2E F25J1/00C2E2 F25J1/00C2F F25J1/00C2V F25J1/02 F25J1/02A2 F25J1/02Z4U4F F25J3/02A2 F25J3/02C2 F25J3/02C6 F28B1/06 F28D5/02 F28F13/14 R17C201/01A R17C201/01G2 R17C201/03B R17C201/05A R17C203/03A5A R17C203/03D R17C203/06A7A1 R17C203/06B1 R17C203/06B4 R17C205/01L2 R17C205/01M2 R17C205/01M2A2 R17C205/01M2A3 R17C221/03B1 R17C223/01B1B R17C223/03B R17C223/04B2 R17C225/01A3 R17C225/03B R17C225/03C R17C227/01D1 R17C227/03A5A R17C227/03A5B R17C227/03A5C R17C227/03A7 R17C227/03A9 R17C227/03C3 R17C227/03C3B R17C227/04A R17C227/04C R17C250/04A5 R17C260/03A2 R17C265/05 R17C270/01A1 R17C270/01A2 R17C270/01A2A R17C270/01A3B R17C270/01B1 R17C270/01D1A R17C270/01D1B R25J200/02 R25J205/04 R25J220/62 R25J220/64 R25J240/02 R25J245/02 R25J270/04 R25J290/72 Y02E60/32B

US: 141/387 165/104.19 165/104.190S 165/146 165/150 220/560.1 405/210 405/219 62/404 62/45.1 62/50.2 62/50.200P 62/50.200S 62/506 62/53.2 62/53.200S 62/611 62/611P 62/613 62/613P 62/614 62/620



Family:

Publication number	Publication date	Application number	Application date
AU2005257930 AA	20060105	AU20050257930	20050612
EP1756469 A1	20070228	EP20050761116	20050612
EP1756469 A4	20150218	EP20050761116	20050612
US2005217314 AA	20051006	US20040816793	20040401
US2005274126 AA	20051215	US20040869461	20040615
US2006010910 AA	20060119	US20040894355	20040718
US2006010911 AA	20060119	US20040971767	20041021
US2006225436 AA	20061012	US20040782736	20040219
US2007186564 AA	20070816	US20060609321	20061211
US2007186565 AA	20070816	US20070618933	20070101
US2007240862 AA	20071018	US20060405854	20060418
US2008053110 AA	20080306	US20050570765	20050612
US2010043452 AA	20100225	US20090426867	20090420
US7146817 BB	20061212	US20040782736	20040219
US7155917 BB	20070102	US20040869461	20040615
US7225636 BB	20070605	US20040816793	20040401
US7318319 BB	20080115	US20040971767	20041021
US7318319 C1	20110628	US20040971767	20041021
US7360367 BB	20080422	US20040894355	20040718
US7360367 C1	20110628	US20040894355	20040718
US7478975 BB	20090120	US20060609321	20061211
US7913512 BB	20110329	US20060405854	20060418
WO05079540 A2	20050901	WO2005US05555	20050221
WO05079540 A3	20060413	WO2005US05555	20050221
WO06002030 A1	20060105	WO2005US20829	20050612
WO06020107 A2	20060223	WO2005US25266	20050718
WO06020107 A3	20061221	WO2005US25266	20050718

Priority:

US20040782736	20040219	US20040816793	20040401	US20040869461	20040615
US20040894355	20040718	US20040971767	20041021	US20050570765	20050612
WO2005US20829	20050612	US20060405854	20060418	US20060609321	20061211
US20070618933	20070101	US20090426867	20090420		

Probable Assignee: WOOD GROUP ADVANCED PARTS MANUFACTURE AG**Assignee(s):** (std): BAUDAT NED ; BAUDAT NED P ; HUBBARD BRADFORD S ; MUSTANG ENGINEERING L P ; MUSTANG ENGINEERING L P A WOOD ; MUSTANG ENGINEERING LP ; SHARP RANDY M ; ROSS FRANK P ; SHARP RANDY MICHAEL ; ROSS FRANK PATRICK ; WOOD GROUP ADVANCED PARTS MANU ; WORTHINGTON W S ; WOOD GROUP ADVANCED PARTS MANUFACTURE AG ; WOOD GROUP MUSTANG INC**Assignee(s):** WOOD GROUP ADVANCED PARTS MANUFACTURE A G ; MUSTANG ENGINEERING L P A WOOD GROUP COMPANY ; MUSTANG ENGINEERING LP A WOOD GROUP CO ; MUSTANG ENGINEERING LP A WOOD GROUP COMPANY ; WOOD GROUP ADVANCED PARTS MANUFACTURE ; MUSTANG ENGINEERING L P A WOOD GROUP CO**Inventor(s):** (std): BAUDAT NED ; BAUDAT NED P ; BAUDAT NED PHILLIP ; BRADFORD S HUBBARD ; HUBBARD BRADFORD S ; HUBBARD BRADFORD SCOTT ; ROSS FRANK P ; ROSS FRANK PATRICK ; SHARP RANDY M ; SHARP RANDY MICHAEL ; WORTHINGTON W S ; WORTHINGTON W SCOTT**Inventor(s):** WORTHINGTON W ; NED P BAUDAT ; HUBBARD BRADFORD ; BRADFORD S**Agent(s):** GRIFFITH HACK ; GILBRETH AND ASSOCIATES PC ; GILBRETH AND ASSOCIATES PC ; J M MARK ; MARY A ; GILBRETHROEBUCK ; GILBRETH ROEBUCK ; GILBRETH AND ASSOCAITES PC ; GILBRATH J M MARK ; GILBRATH MARY A ; GILBRETH J M MARK ; GILBRETH MARY A ; GILBREATH J M MARK ; GILBREATH MARY A ; GILBREATH AND ASSOCIATES PC ; GILBRETH ROEBUCK PC**Designated states:** 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 KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**78) Family number: 4593543 (DE3604239A1)**

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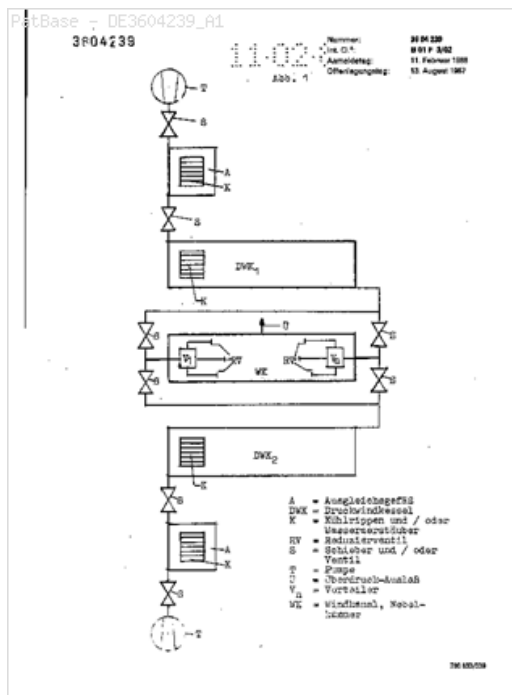
Title: PROCESS FOR PRODUCING NATURAL MIST FROM AIR

Abstract: Corresponding to natural cloud formation, to form mist, warm air is introduced into cold air or cold air into warm air in order to cool an amount of air to below its dew point. This is cooling by mixing two air masses: mixing mist. Mist can additionally be produced by slightly compressing the air of a space more or less isothermically without making the natural moisture condense during this. Very rapid adiabatic expansion reduces the air temperature below its dew point, so that mist forms: expansion mist. In order to prevent mist being evaporated again on walls which are too hot or condensation water forming on walls which are too cold, ceilings and walls of the mist chamber are to be protected by forming an air insulation layer with the aid of sieve-like metal sheets which are laid with the surface parallel to the wall at a slight distance therefrom. The nature of the metal sheets guarantees a pressure equalisation of the insulation air together with the large mass of the room air. As a result, the metal sheet temperature almost simultaneously follows the room air temperature.

Classifications:**International (IPC 8-9):** B01F3/02 (Advanced/Invention);

B01F3/00 (Core/Invention)

International (IPC 1-7): A01G15/00 B01F3/02 G01M9/00**CPC:** B01F3/026 F41H9/06**European:** B01F3/02P



Family:

Publication number	Publication date	Application number	Application date
DE3604239 A1	19870813	DE19863604239	19860211
DE3604239 C2	19881006	DE19863604239	19860211

Priority:

DE19863604239 19860211

Probable Assignee:

SCHUSTER WERNER DR

Assignee(s): (std):

SCHUSTER WERNER DR

Assignee(s):

SCHUSTER WERNER DR 1000 BERLIN DE

Inventor(s): (std):

SCHUSTER WERNER DR

Inventor(s):

SCHUSTER WERNER DR 1000 BERLIN DE

79) Family number: 23193560 (DE10046557A1)

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Title: INJECTION NOZZLE FOR METERING TWO DIFFERENT VISCOUS MATERIALS TO PRODUCE ELECTROMAGNETIC SEALS HAS A BASE PART AND NOZZLE SUPPLIED WITH DIFFERENT MATERIALS

Abstract: The nozzle has a base part with a tip (105) and an internal injection needle (110). The base part and the needle are each connected individual pumps supplying materials with different characteristics. Electromagnetic screening material extruded through the outer part of the nozzle surrounds a sealing polymer emerging from the needle. Independent claims are made for: a) a metering unit for applying two or more materials with different physical and/or chemical properties onto an object and which includes the claimed injection nozzle; b) a multi-functional combination seal comprising an extruded cold elastic core and a surrounding outer extrudate with different properties and whose structure varies across the cross-section or along the length.

Classifications:

International (IPC 8-9): B05C5/02 B29C47/06 B29C47/54

B29C47/92 H05K9/00 (Advanced/Invention);

B05C5/02 B29C47/06 B29C47/36 B29C47/92

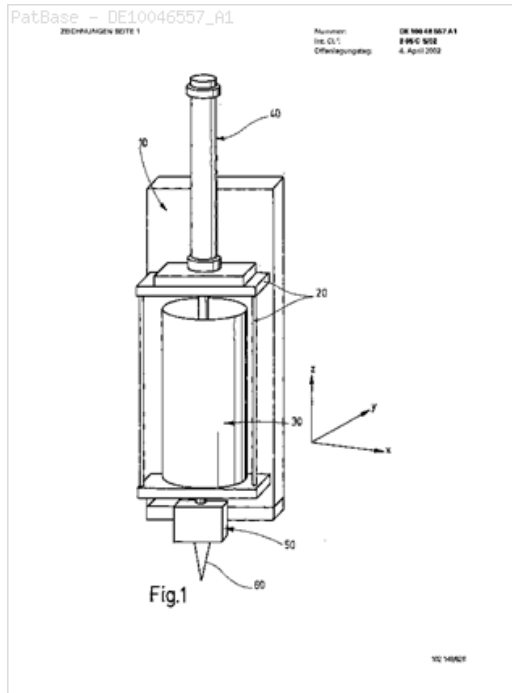
H05K9/00 (Core/Invention)

International (IPC 1-7): B05C5/02 B29C47/54 B29C47/92 H05K9/00

CPC: B29L2031/265 B29C48/304 B29C48/05 B29C48/30 B29C48/92

B29C2948/92571 B29C2948/926 B29C2948/92904

European: B29C47/12E L29L31/26B



Family:

Publication number	Publication date	Application number	Application date
DE10046557 A1	20020404	DE20001046557	20000919
DE10046557 B4	20060727	DE20001046557	20000919

Priority:

DE20001046557 20000919 DE20001046557 20000919

Probable Assignee: NEUHAUS ELEKTRONIK GMBH

Assignee(s): (std): DATRON ELECTRONIC GMBH ; NEUHAUS ELEKTRONIK GMBH

Inventor(s): (std): NEUHAUS ALEXANDER ; RECK MATTHIAS ; TROJANSKI ANDREAS

80) Family number: 44402561 (US2011100208A)

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Title: AIR PUMP PRODUCING HIGH PRESSURE

Abstract: Manually operated air pump for multistage compression of ambient air comprises a multiple coaxial cylinder arrangement. The air inlet (3) is located in the pump handle (2), through which air passes to enter the pump. The pump handle further includes a dust and humidity filter (21) and a cavity (20) to be used as tool storage.

Classifications:

International (IPC 8-9): F01B29/00 F01B31/00 F04B33/00 F04B33/02

F15B15/14 (Advanced/Invention);

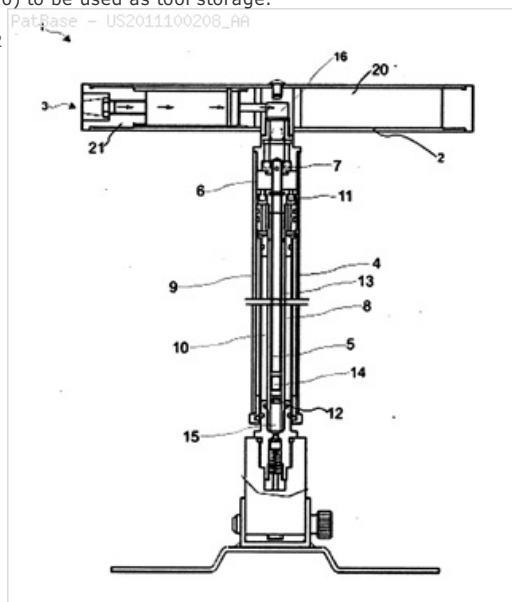
F04B33/00 (Core/Invention);

F04B (Subclass/Invention)

CPC: F04B33/00

European: F04B33/00

US: 92/117.00RP 92/117R 92/128 92/58.1



Family:

Publication number	Publication date	Application number	Application date
AU2008360649 AA	20100218	AU20080360649	20080813
AU2008360649 AB	20110428	AU20080360649	20080813
AU2008360649 BB	20140313	AU20080360649	20080813
BRPI0822617 A2	20150616	BR2008PI22617	20080813
CA2729952 AA	20100218	CA20082729952	20080813
CA2729952 C	20131015	CA20082729952	20080813

DE602008017304 D1	20120913	DE200860017304T	20080813
DK2326839 T3	20121029	DK20080813786T	20080813
EP2326839 A1	20110601	EP20080813786	20080813
EP2326839 B1	20120718	EP20080813786	20080813
ES2394034 T3	20130115	ES20080813786T	20080813
JP2011530678 T2	20111222	JP20110522942T	20080813
NO20110355 A	20110309	NO20110000355	20110309
NZ590396 A	20130328	NZ20080590396	20080813
RU2011105488 A	20120920	RU20110105488	20080813
RU2480624 C2	20130427	RU20110105488	20080813
TR201100239 T1	20110621	TR20110000239T	20080813
US2011100208 AA	20110505	US20080002347	20080813
US8857314 BB	20141014	US20080002347	20080813
WO10019108 A1	20100218	WO2008TR00097	20080813
ZA201100202 A	20110928	ZA20110000202	20110107

Priority:

EP20080813786 20080813 NZ20080590396 20080813 WO2008TR00097 20080813

Probable Assignee: TASYAGAN BAHTIYAR

Assignee(s): (std): BAHTIYAR TASYAGAN ; TASJAGAN BAKHTIJAR ; TASYAGAN BAHTIYAR

Inventor(s): (std): TASYAGAN BAHTIYAR ; BAHTIYAR TASYAGAN ; TASJAGAN BAKHTIJAR

Agent(s): PIPERS; MOFFAT AND CO; LOESCH CHRISTOPH LUDWIG KLAUS; OPPERDAHL PATENT LAW FIRM LLC; OEZTUERK MELEK

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

81) Family number: 34516615 (WO07065882A1)

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Title: WAVEGUIDE TEST AND MAINTENANCE DEVICE

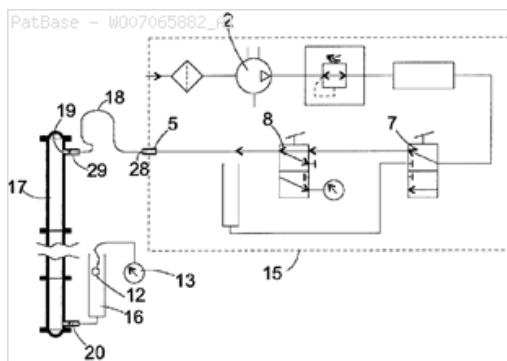
Abstract: A test and/or maintenance device for hollow waveguides comprises a source (1, 2, 3, 6) of pressurized dry gas, a first connector (29) for connecting the source to a hollow waveguide (17), a pressure gauge (14) connected to a gas duct (4, 18) extending between the source (2) and the first connector (29) and a first switching valve (8) which in a first position establishes communication between the source and the connector (29) and in a second position establishes communication between a first port (27) of the pressure gauge (14) and the connector (29) and seals the connector (29) from the source (2).

Classifications:

International (IPC 8-9): G01M3/26 H01P1/30 (Advanced/Invention); G01M3/26 H01P1/30 (Core/Invention)

CPC: H01P1/30

European: H01P1/30



Family:

Publication number	Publication date	Application number	Application date
DE102005056588 A1	20070531	DE200510056588	20051125
WO07065882 A1	20070614	WO2006EP69286	20061204

Priority:

DE200510056588 20051125

Probable Assignee: ERICSSON AB

Assignee(s): (std): ERICSSON AB ; STRAUBHAAR OTMAR

Inventor(s): (std): STRAUBHAAR OTMAR

Designated states: 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 GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

82) Family number: 41081615 (US2008011679A)

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Title: METHOD AND INSTALLATION FOR TREATING AN AQUEOUS EFFLUENT, IN ORDER TO EXTRACT AT LEAST ONE DISSOLVED GASEOUS COMPOUND; APPLICATION TO AQUACULTURE IN RECIRCULATED AQUEOUS MEDIUM

Abstract: The present invention relates to a method for treating an aqueous effluent comprising at least one dissolved gaseous compound, for example carbon dioxide, consisting in at least partially separating said compound from said effluent, in order to obtain a treated aqueous phase, depleted of said compound, a method according to which: (a) an upflow liquid column of the aqueous effluent is established, by injecting and distributing into said column, at the bottom, a gas phase less

rich in said compound than the aqueous effluent, for example air or oxygen, said gas phase being distributed in said column in the form of bubbles whereof the volume increases upward, whereby a mixed liquid/gas stream is obtained at the top, (b) the mixed liquid/gas stream is separated into a liquid stream constituting the treated aqueous phase, and an offgas stream enriched with said gaseous compound, characterized in that the mixed liquid/gas stream is separated under vacuum by establishing a gas headspace between the liquid stream and the gas stream, and by aspirating the latter.

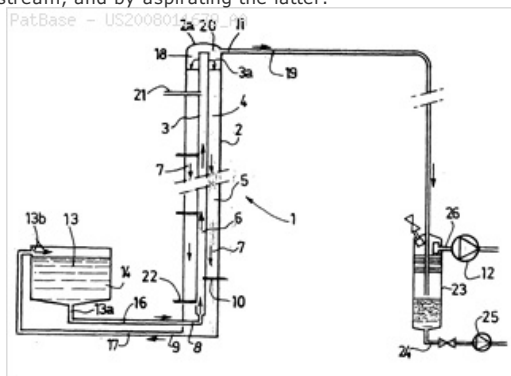
Classifications:

International (IPC 8-9): A01K61/00 A01K63/04 B01D19/00 C02F1/20 C02F1/32 C02F3/22 C12N1/00 (Advanced/Invention); A01K61/00 A01K63/04 B01D19/00 C02F1/20 C02F3/22 C12N1/00 (Core/Invention); A01K (Subclass/Invention)

CPC: A01K63/04 A01K63/042 C02F1/20 C02F1/32 C02F1/001 C02F1/78 C02F3/302 C02F2101/10 C02F2101/16 C02F2103/08 C02F2201/003 C02F2201/784 C02F2209/22 C02F2209/24 C02F2301/046 C02F2301/063 C02F2301/066 C02F2303/12 B01D19/0036 B01D19/0042 C02F1/727

European: A01K63/04 A01K63/04A B01D19/00H B01D19/00P C02F1/20 M02F1/00D M02F1/32 M02F1/72S M02F1/78 M02F101/10 M02F101/16 M02F103/08 M02F201/00D2 M02F201/784 M02F209/22 M02F209/24 M02F3/30D M02F301/04D M02F301/06B M02F301/06D M02F303/12

US: 210/188 210/637 435/243 47/1.4 95/242 95/258 95/260 95/263 952/42 96/176 96/194



Family:

Publication number	Publication date	Application number	Application date
AT553649 E	20120515	AT20070788832T	20070604
AU2007274184 AA	20080117	AU20070274184	20070604
AU2007274184 BB	20120524	AU20070274184	20070604
BRPI0714427 A2	20130213	BR2007PI14427	20070604
BRPI0714427 B1	20170815	BR2007PI14427	20070604
DE602007022123 D1	20120614	DE200760022123T	20070604
EP2040537 A2	20090401	EP20070788832	20070604
EP2040537 B1	20120418	EP20070788832	20070604
ES2385363 T3	20120723	ES20070788832T	20070604
FR2914296 A1	20081003	FR20070002308	20070329
FR2914296 B1	20090807	FR20070002308	20070329
IL196420 A0	20110801	IL20090196420	20090108
IL196420 A1	20121129	IL20070196420	20070604
NO20090698 A	20090212	NO20090000698	20090212
NO342696 B1	20180709	NO20090000698	20090212
US2008011679 AA	20080117	US20070812623	20070620
US7771515 BB	20100810	US20070812623	20070620
WO08006950 A2	20080117	WO2007FR00920	20070604
WO08006950 A3	20080228	WO2007FR00920	20070604

Priority:

US20060830343P 20060713 FR20070002308 20070329 EP20070788832 20070604
WO2007FR00920 20070604 US20070812623 20070620

Probable Assignee: FRANCAIS DE INST

Assignee(s): (std): INST NAT SCIENCES APPLIQ ; IFREMER ; INST FRANCAIS DE RECH POUR EXP ; FRANCAIS DE RECH POUR L'EXPLOITATION DE LA MER IFREMER INST ; MOREL ROBERT ; LEMARIE GILLES ; JEAN YVES CHAMPAGNE ; NAT DES SCIENCES APPLIQUEES INST

Assignee(s): FRANCAIS DE INST ; ROBERT MOREL ; FRANCAIS DE RECHERCHE POUR EXPLOITATION DE LA MER IFREMER INST ; FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER IFREMER INST ; FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER IFREMER PUBLIC A CARACTERE IND ET COMMERCIAL ETS INST ; GILLES LEMARIE ; INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER IFREMER ; FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER INST ; INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER IFREMER ETABLISSEMENT PUBLIC A CARACTERE INDUSTRIEL ET COMMERCIAL ; FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER IFREMER INST ; INSTITUT FRANCAIS DE RECHERCHE POUR EXPLOITATIONDE LA MER IFREMER ; FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER IFREMER INST ; NATIONAL DES SCIENCES APPLIQUEES INST ; INSTITUT NATIONAL DES SCIENCES APPLIQUEES ; NATIONAL DES INST

Inventor(s): (std): CHAMPAGNE JEAN YVES ; LEMARIE GILLES ; MOREL ROBERT ; RENE FRANCOIS

Inventor(s): ROBERT MOREL ; FRANCOIS RENE ; GILLES LEMARIE ; JEAN YVES CHAMPAGNE

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; WITTE WELLER AND PARTNER PATENTANWAELTE MBB; CHEVALIER RENAUD PHILIPPE ET AL; CHEVALIER RENAUD PHILIPPE; CURELL MIREIA; CABINET GERMAIN ET MAUREAU; LUZZATTO AND LUZZATTO; OLIFF AND BERRIDGE PLC; CABINET GERMAIN MAUREAU

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW

83) Family number: 23888627 (DE1604163A1)

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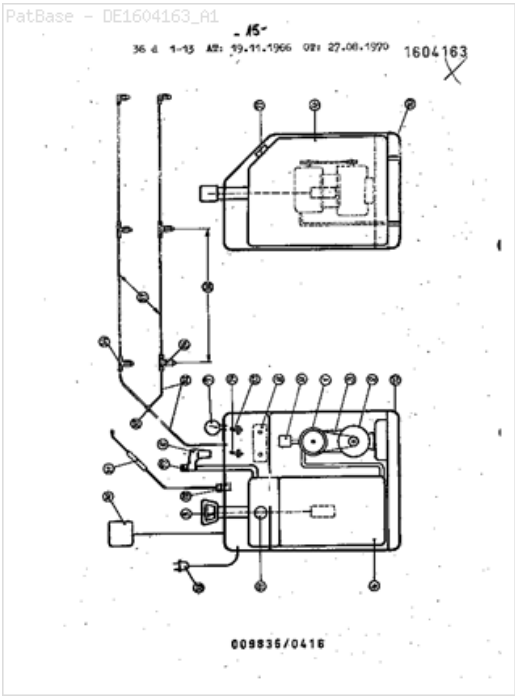
Title: VORRICHTUNG ZUR ZERSTAEUBUNG FLUESSIGER MEDIEN SOWIE ZUR KLIMATISCHEN REGELUNG DEVICE FOR atomization of liquids CLIMATE CONTROL AND FOR (Machine translation)

Abstract: Source: DE1604163A1 [DE] (Claim 1) 1. Vorrichtung zurZerstUebung flUssiger Medien sowie zur klimatischen Regelung einschliesslich der Luftfeuchte in Raeumen, vorzugsweise in Tierstaellen, dadurchgekennzeich- net,da# im Raum angebrachte DUsen ueberZufuhrungslei- tungen und unter Zwischenschaltung einer mit einem Motor verbundenen Pumpe mit einem Vorratsbehaelter und/oder einer Wasserleitung in Verbindung stehen.

Machine translation: (Claim 1) 1 Device zurZerstUubung liquid media as well as climatic control, including the humidity indoors, preferably in Tierstaellen, dadurchgekennzeich-net, because # in the room mounted nozzles ueberZufuhrungslei-ments and the interposition of a connected to a motor pump with a Vorratsbehaelter and / or a water line in conjunction are.

Classifications:

International (IPC 8-9): A01K1/00 F24F6/12
F24F6/14 (Advanced/Invention);
A01K1/00 F24F6/12 (Core/Invention)
International (IPC 1-7): A01K1/00 B05B7/00 F24F3/14 F24F7/00
CPC: A01K1/0047 Y02P60/54 Y02P60/542 F24F6/14 A01K1/0052
F24F6/12 Y02B30/545 Y02A40/75 Y02A40/76
European: A01K1/00D A01K1/00D1 F24F6/12 F24F6/14
Y02B30/54D



Family:

Publication number	Publication date	Application number	Application date
BE706660 A	19680517		19671117
CH472011 A	19690430	CH19670014976	19671026
DE1604163 A1	19700827	DE1966D051596	19661119
DE1604163 A1	19700827	DE19661604163	19661119
FR1546019 A	19681115	FR19670128729	19671117
NL6715668 A	19680520	NL19670015668	19671117

Priority:

DE1966D051596 19661119 DE1966O051596 19661119 FR19670128729 19671117

Probable Assignee: DESOWAG CHEMIE GMBH

Assignee(s): (std): DESOWAG CHEMIE GMBH ; OPHARDT HERMANN

Assignee(s): DESOWAG CHEMIE GES MIT BESCHRANKTER HAFTUNG ; DESOWAG CHEMIE GESELLSCHAFT MIT BESCHRANKTER HAFTU ; DESOWAG CHEMIE GESELLSCHAFT MIT BESCHRANKTER HAFTUNG

Inventor(s): (std): OPHARDT HERMANN ; HERMANN OPHARDT ; HANS DIETER DEPPE DR ; HANS DIETER DEPPE

Inventor(s): DIETER DEPPE HANS

84) Family number: 70604635 (US2018280899A)

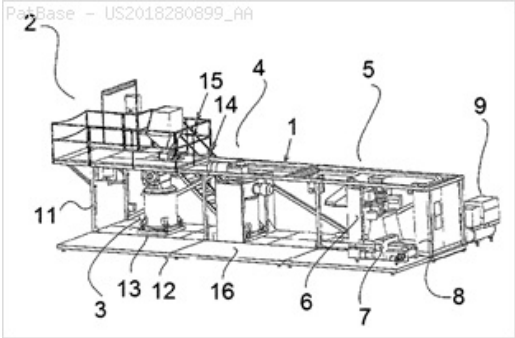
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Title: METHOD, COMPUTER PROGRAM, AND MULTIFUNCTIONAL, MODULAR AND MOBILE MIXING AND PACKAGING PLANT

Abstract: Modular mobile mixing and packaging plant for powdery or granular products, comprising a carrying structure having dimensions suitable for being introduced in a standard shipping container and internally housing a receiving and manual weighing module, a material loading module, a mixing module, and a packaging module, wherein the mixing module comprises means for cooling and/or drying the mixture contained in said module.

Classifications:

International (IPC 8-9): A23N17/00 B01F3/12 B01F3/22 B65B1/00
B65B1/04 B65B3/12 B65B3/28 B65B3/30 B65B37/18 B65B61/00
B65B63/00 B65B65/00 (Advanced/Invention)
CPC: B65B65/00 B65B1/00 B01F3/1207 B01F3/2215 B01F3/223
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B65B37/18 B65B63/00



Family:

Publication number	Publication date	Application number	Application date
CN108688877 A	20181023	CN201810272541	20180329
CO20180003017 A1	20180612	CO20180003017	20180321
EP3381821 A1	20181003	EP20180382176	20180316
ES2684630 AA	20181003	ES20170000326	20170330

IN201824010224 A	20181019	IN201824010224	20180320
US2018280899 AA	20181004	US20180939597	20180329

Priority:

ES20170000326 20170330

Probable Assignee: INVERSIONES HIKI6 S L

Assignee(s): (std): INVERSIONES HIKI6 S L

Assignee(s): INVERSIONES HIKI6 SL

Inventor(s): (std): KRISTENSEN HENRIK STAMM ; STAMM KRISTENSEN HENRIK

Inventor(s): HENRIK STAMM KRISTENSEN

Agent(s): JESUS MARIA MENDEZ BERMUDEZ; TEMINO CENICEROS IGNACIO; TEMINO IGNACIO

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

85) Family number: 30184652 (US2006045981A)

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Title: PRESSURE FED COATING ROLLER, ROLLER COATING DEVICE, AUTOMATED COATING APPARATUS USING THIS DEVICE

Abstract: An object of the present invention is to provide a coating device of the roller type which reduces a waste of coating material and distributes the coating material uniformly to the roller brush. The coating device includes a solid cylindrical body (11) being solid except an axial center hole (13), and radial holes (14) radially extended from a plurality of positions of the axial center hole (11), a roller brush (12) applied to the outer periphery of the solid cylindrical body (11), coating-material press feeding pipes (24) connected to both ends of the axial center hole (13) of the solid cylindrical body (11), and an arm part (31) for supporting the solid cylindrical body (11) at both ends of the solid cylindrical body (11). Those components are entirely supported by a turnable support mechanism (40) and a vertically movable support mechanism (50).

Classifications:

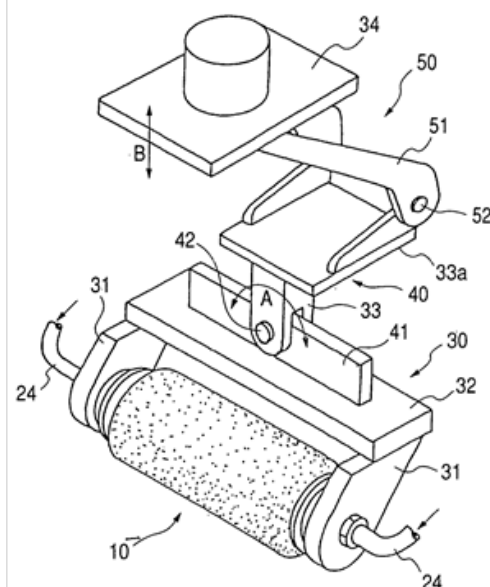
International (IPC 8-9): B05B12/00 B05C1/00 B05C1/02 B05C1/06 B05C1/08 B05C1/10 B05C11/00 B05C11/10 B05C17/02 B05C17/03 B05D1/26 B05D1/28 B05D5/00 B05D7/14 (Advanced/Invention); B05C1/02 B05C17/02 (Advanced/Non-invention); B05B12/00 B05C1/02 B05C11/10 B05C17/02 B05D1/28 B05D7/14 (Core/Invention)

International (IPC 1-7): B05B12/00 B05C0/00 B05C1/00 B05C1/02 B05C1/10 B05C11/10 B05C17/02 B05C17/03 B05D1/28 B05D7/14
CPC: B05C1/10 B05C17/0217 B05C17/0232 B05C17/0308 B05D1/26 B05D1/28 B05C17/02 B05C1/02

European: B05C1/10 B05C17/02K B05C17/02R2B B05C17/03B B05D1/26 B05D1/28

US: 118/258 118/258S 118/264 118/264S 427/428.01 427/428.010P

PatBase - US2006045981_RH



Family:

Publication number	Publication date	Application number	Application date
AU2003250530 AA	20031231	AU20030250530	20030611
AU2003250530 AH	20031231	AU20030250530	20030611
CN1662309 A	20050831	CN20038013865	20030611
DE60307840 D1	20061005	DE20036007840	20030611
DE60307840 D1	20061005	DE20036007840T	20030611
DE60307840 T2	20070412	DE20036007840T	20030611
EP1513619 A2	20050316	EP20030760141	20030611
EP1513619 B1	20060823	EP20030760141	20030611
EP1625894 A2	20060215	EP20050024678	20030611
EP1625894 A3	20061004	EP20050024678	20030611
ES2271641 T3	20070416	ES20030760141T	20030611
JP2004066215 A2	20040304	JP20030012430	20030121
JP2004223362 A2	20040812	JP20030012466	20030121
JP2004223369 A2	20040812	JP20030012695	20030121
KR100727370 B1	20070612	KR20047020372	20030611
KR100764675 B1	20071008	KR20077002288	20030611
KR20050024335 A	20050310	KR20047020372	20030611
KR20070027756 A	20070309	KR20077002288	20070129
MXPA04012655 A1	20050815	MX2004PA12655	20030611
TH64322 A	20040924	TH20031002195	20030613
TW200400087 A	20040101	TW20030116176	20030613
TWI275418 B	20070311	TW20030116176	20030613

US2006045981 AA	20060302	US20030517636	20030611
WO03106047 A2	20031224	WO2003JP07427	20030611
WO03106047 A3	20040415	WO2003JP07427	20030611

Priority:

JP20020174595 20020614 JP20030012430 20030121 JP20030012466 20030121
JP20030012695 20030121 EP20030760141 20030611 WO2003JP07427 20030611
KR20047020372 20041214 WO2003JP07427 20041214 WO2003JP07427 20070129

Probable Assignee: KANSAI PAINT CO LTD

Assignee(s): (std): ABE SHIGEYUKI ; HIRAI HARUO ; KANSAI PAINT CO LTD ; TSUSHI TOSHIHIRO

Assignee(s): KANSAI PAINT BUSH KEY SHAH ; KANSAI PAINT CO

Inventor(s): (std): HARUO HIRAI ; TOSHIHIRO TSUSHI ; TSUSHI TOSHIHIRO ; HIRAI HARUO ; ABE SHIGEYUKI ; SHIGEYUKI ABE ; HIRAI AKIO

Inventor(s): HIRAI HARUOAKANSAI

Agent(s): FOLEY AND LARDNER LLP, SUITE 500; FOLEY AND LARDNER LLP SUITE 500

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 CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

86) Family number: 225662 (BRPI9102610A)

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Title: APARELHO CLINATIZADOR DE AMBIENTES APPLIANCE CLINATIZADOR OF ENVIRONMENTS (Machine translation)

Abstract: Source: BRPI9102610A [PT] [Source: Claim 1] Pi 9 1 02 6 1 C REIVINDICACAO "APARELHO CLIMATIZADOR DE AMBIENTES".caracterizado por apresentar uma estrutura ou caixilho (1),com face lateral (2) exposta ao exterior e outra (21) para o interior, possuindo uma abertura (3), tampa superior (4), bandeja inferior (5), filtros porosos (6) e (7), aparas de fibras (8), motor (9), com apoios (10), eixo comando (11ss), rotor do ventilador (12), turbo aspiracao (13), defletor giratorio (14)» ralo (15). orientadores (16), tanque inferior (17), meio valvular (18), conduto recuperador (19). canaleta (20), bomba (21). plaquetas para controle da umidade (22) e sensores (23). 10

Machine translation: [Source: Claim 1] PI 9 1 02 6 1 C CLAIM "APPLIANCE UNIT OF ENVIRONMENTS. characterized by presenting a structure or frame (1), with face lateral (2) exposed to the outside and another (21) for the interior, with an opening (3), (4) top cover, bandeja (5), porous filters (6) and (7), (8), (9), (10), with command axis (11 ss), fan rotor (12), turbo aspiration (13), baffle- _ tor giratorio (14)» drain (15) (16), counselors... tank lower (17), middle (18), flue valve fireplace (19). channel (20), (21). moisture control platelets (22) and sensors (23). 10

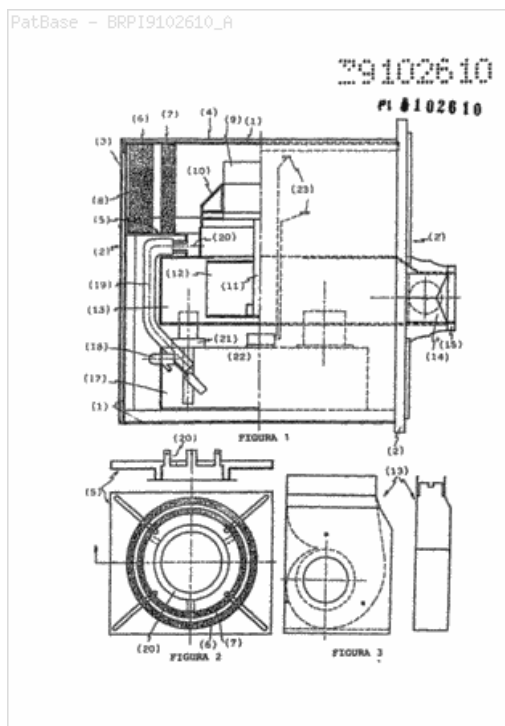
Classifications:

International (IPC 8-9): F25B15/12 (Advanced/Invention); F25B15/12 (Core/Invention)

International (IPC 1-7): F25B15/12

CPC: Y02B30/62 Y02A30/277

European: Y02B30/62



Family:

Publication number	Publication date	Application number	Application date
BRPI9102610 A	19920428	BR1991PI02610	19910621

Priority:

AR19900317911 19900801

Probable Assignee: YACCUZZI HECTOR JUAN

Assignee(s): (std): YACCUZZI HECTOR JUAN

Assignee(s): HECTOR JUAN YACCUZZI

Inventor(s): (std): YACCUZZI HECTOR JUAN

Inventor(s): HECTOR JUAN YACCUZZI

Title: PROCESS FOR OPERATING A GAS SAMPLING DEVICE FOR COLORIMETRIC GAS ANALYSIS

Abstract: A process for controlling the delivery of a quantity of gas to be measured through a test gas tube (60) with a pump (20), a sensor system for pressure and flow measurement (12, 14, 16) and a control and regulating unit (30). A common mode offset of a differential pressure sensor (14), determined in a calibration process, is taken into account in the process for operating the gas sampling device to increase the accuracy of a gas volume being delivered with pump (20) from the measuring environment (50).

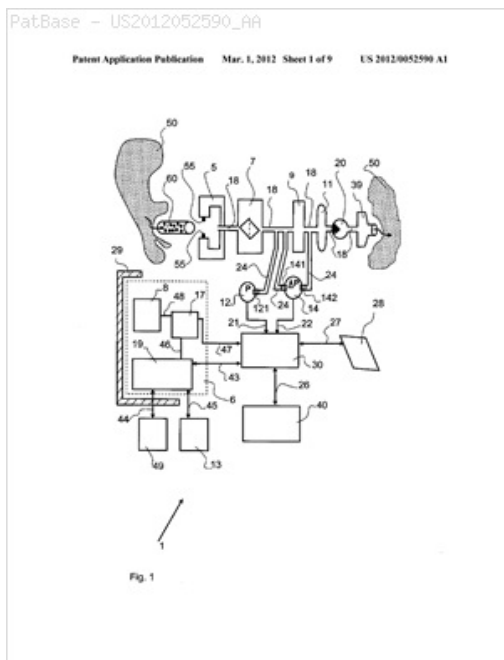
Classifications:

International (IPC 8-9): G01N1/22 G01N21/75
G05D7/00 (Advanced/Invention)

CPC: G01N1/24 G01N21/783

European: G01N1/22 G01N1/24 S01N21/78B

US: 436/164 436/164P 702/47

**Family:**

Publication number	Publication date	Application number	Application date
DE102010035728 A1	20120301	DE201010035728	20100828
DE102010035728 B4	20140508	DE201010035728	20100828
US2012052590 AA	20120301	US20110169324	20110627
US8718954 BB	20140506	US20110169324	20110627

Priority:

DE201010035728 20100828

Probable Assignee: DRAEGERWERK AG

Assignee(s): (std): DRAEGER SAFETY AG AND CO KGAA ; DRAEGER SAFETY AND CO KGAA AG ; DRAEGERWERK AG ; VON BLUMENTHAL TILMAN

Assignee(s): DRAGER SAFETY AG AND CO KGAA ; DRAGER SAFETY AND CO KGAA AG

Inventor(s): (std): VON BLUMENTHAL TILMAN ; BLUMENTHAL TILMAN VON

Agent(s): MCGLEW AND TUTTLE PC

Title: THERMAL MANAGEMENT SYSTEM

Abstract: A thermal management system has a high temperature heat transfer circuit and a low temperature heat transfer circuit for modulating the temperature of heat-generating components having different operating temperatures. The heat transfer circuits are in flow communication and are interdependent so that a single circulating pump can be used to pump a liquid heat transfer medium through both circuits. One of the heat transfer circuits comprises a continuous loop and the other heat transfer circuit comprises an open loop having a first end and a second end at which it is in flow communication with the first heat transfer circuit. Each heat transfer circuit is provided with a heat exchanger to modulate temperature of the heat transfer medium.

Classifications:

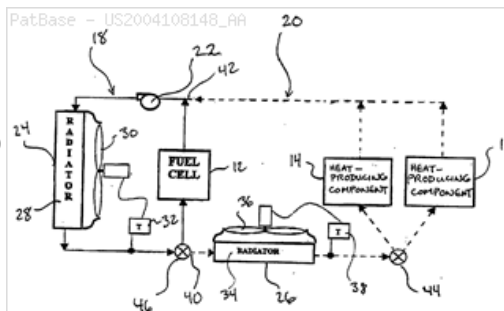
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International (IPC 1-7): B60K1/00 B60K11/00 F01P11/00 G05D23/00 H01M8/00 H01M8/04

CPC: B60L1/003 B60L1/02 B60L3/0023 B60L3/0053 B60L15/20 B60L2240/36 B60L2240/421 B60L2240/662 B60L2240/34 H01M8/04007 F01P7/165 H01M8/04029 Y02T10/7275 Y02T10/7291 Y02T90/16 Y02T90/34 Y02T10/645 Y02T10/72 B60L58/33 B60L58/34

European: F01P7/16D H01M8/04B T01M8/04B4 Y02E60/50 Y02T90/34

US: 165/287 165/287S 180/65.1 180/65.100P 180/65.3 180/65.31 180/68.1 180/68.100S 429/12 429/26 429/437 429/442

**Family:**

Publication number	Publication date	Application number	Application date
AT400068 E	20080715	AT20030750205T	20030923
AU2003269641 AA	20040423	AU20030269641	20030923

AU2003269641 AH	20040423	AU20030269641	20030923
CA2406331 AA	20040401	CA20022406331	20021001
CA2406331 C	20091222	CA20022406331	20021001
CN100463266 C	20090218	CN20038023663	20030923
CN1689183 A	20051026	CN20038023663	20030923
DE60321936 D1	20080814	DE20036021936	20030923
EP1547182 A2	20050629	EP20030750205	20030923
EP1547182 B1	20080702	EP20030750205	20030923
JP2006501612 T2	20060112	JP20040540403T	20030923
US2004108148 AA	20040610	US20020263249	20021002
US7191858 BB	20070320	US20020263249	20021002
WO04032264 A2	20040415	WO2003CA01443	20030923
WO04032264 A3	20041202	WO2003CA01443	20030923

Priority:

CA20022406331 20021001 CA20022406331 20021001 US20020263249 20021002
WO2003CA01443 20030923

Probable Assignee: DANA CANADA CORP

Assignee(s): (std): DANA CANADA CORP ; COTTON JAMES S ; LONG MFG LTD ; VANDERWEES DOUG

Assignee(s): DANA CANADA DANA CANADA CORP ; LONG MFG

Inventor(s): (std): COTTON JAMES ; COTTON JAMES S ; DOUG VANDERWEES ; VANDERWEES DOUG ; JAMES S COTTON

Agent(s): RIDOUT AND MAYBEE LLP; NEILSON MARTIN MARK; DYKEMA GOSSETT PLLC

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 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 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

89) Family number: 33191682 (US2006178781A)

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Title: WATER TIMER WITH WATERING PLAN AND METHOD

Abstract: A water timer comprises a user interface, having a user input region, and a controller, coupled to the user interface and programmed to provide flow control device control signals. The controller is programmed to permit the following steps by a user: (a) selecting a zone; (b) selecting a first watering duration for the zone; (c) selecting a first start time for the zone and the first watering duration; and (d) selecting a first day of the week for the first start time. The controller is also programmed to permit the above selecting steps (a), (b), (c) and (d) by a user in any order. The invention includes other aspects.

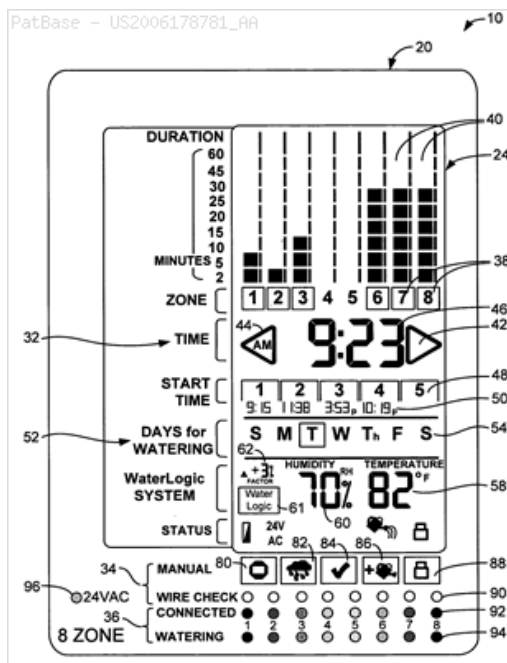
Classifications:

International (IPC 8-9): A01G25/00 A01G27/00 B64D13/00 B67D7/08 F23N5/20 F24F11/76 F25B29/00 G05D11/00 G05D23/12 G05D23/19 G05D7/00 (Advanced/Invention); G05D23/00 (Advanced/Non-invention); A01G25/00 A01G27/00 B64D13/00 B67D7/08 F23N5/20 F24F11/04 F25B29/00 G05D11/00 G05D23/01 G05D23/19 G05D7/00 (Core/Invention); G05D23/00 (Core/Non-invention)

CPC: A01G25/165 G05D23/1902 F24D19/1096 Y02B30/762 F24F11/30 F24F2120/10 G05D23/1934 F24F2110/10

European: A01G25/16C F24F11/00R3A G05D23/19B G05D23/19G4C2

US: 165/254 236/1.00C 236/1.00CP 236/1C 236/46.00R 236/46R 236/91.00DS 236/91D 236/91E 239/67 239/68 239/69 239/70 239/71 700/17 700/282 700/283 700/284



Family:

Publication number	Publication date	Application number	Application date
US2006178781 AA	20060810	US20060325994	20060105
US2006186214 AA	20060824	US20060335182	20060119
US2006196953 AA	20060907	US20060335155	20060119
US2006217845 AA	20060928	US20060325746	20060105
US2007221744 AA	20070927	US20070752779	20070523
US7769494 BA	20100803	US20090500531	20090709
US7802618 BB	20100928	US20060335182	20060119

Priority:

US20050645083P 20050119 US20050652128P 20050210 US20050664561P 20050323
US20060325994 20060105 US20060325746 20060105 US20060335182 20060119
US20060335155 20060119 US20070752779 20070523 US20090500531 20090709

Probable Assignee: TIM SIMON INC

Assignee(s): (std): TIM SIMON INC

Inventor(s): (std): FISHER MATTHEW T ; SIMON TIMOTHY M ; SMITH BLAINE M
Inventor(s): FISHER MATTHEW ; SMITH BLAINE ; SIMON TIMOTHY
Agent(s): HAYNES BEFFEL AND WOLFELD LLP; JAMES F; HAYNES BOONE AND WOLFELD LLP

90) Family number: 63999696 (IN201641037711A)

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Title: DRY AIR EVAPORATIVE AIR COOLER 3

Abstract: A Dry air evaporative air cooler 3 which comprises a mechanical and electrical evaporative air cooler, it comprises a cuboids shaped box, its inside is divided into two compartments 1 and 2 with a 3 partition. Inside the 2 compartment consists of 13 media pads that are kept thoroughly wet by water that is sprayed on them. The water is typically delivered via 8 pipes via 5 pump which drawn from a 35 reservoir below in 2 compartment. The sprayed water flow down from wet pads and collected in the 35 water reservoir in the 2 compartment. In the total delivered water 1A percent water is delivered in to 2H heat exchanger (which kept in 1 compartment) through 22 AE wave shaped metal pipes then the cooling is conducted outside of the 2H heat exchanger. A number of 21 AE wave shaped or flat cuboids shaped long metal pipes fixed horizontally in U shape in the 1 compartment. Another metal 37 3H heat exchangers are dipped in the water tub, their one 39 funnel ends open at the back of the inlet fan and their other 38 ends open besides the 1 compartment. A 17 fan motor fixed in the 2 compartment having long shaft extents from 1 compartment beginning consist of 18 inlet fan blades and also extends 2 compartment consist of 19 blower. While the fan and blower are in working, in 2 compartments the blower pulls the outside air from 34 passages and back of the unit, via through wet media and gets cooled by evaporation process. This cool air travels inside of 1H heat exchanger, and then this cooling is conducted outside of the heat exchangers. While the inlets fan working low cool room air also enters in the 3H heat exchanger and come out into the room as cooler air. Meanwhile the inlet fan also suck the air from the 1H and 2H heat exchangers, and then the low cool room air enters from both sides of the heat exchangers and gets cooled by passing over the both heat exchangers pipes and blow out into the room by inlet fan without adding humidity. In this process still 20 percent cooling remains in the evaporated air come out from the 1st heat exchanger and enters into the 4H 4th heat exchanger travels inside it and go out through 14E exhaust pipe as warm humid air. Meanwhile hot or warm outside air sucked by the blower 19 pass over the 4th heat exchanger collect the cooling and add it to the evaporative media make more cool in the re evaporative cycle. There is a 23 Humidifier is fixed for increase humidity in the room for dry areas and a 27 HRV is fixed for stale air goes out and fresh air inlet, both works by fan and blower. A 49 Dehumidifier is provided for high humid areas.

Classifications:

International (IPC 8-9): F24F3/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201641037711 A	20161111	IN201641037711	20161104

Priority:

IN201641037711 20161104

Probable Assignee: CHAPARALA SRINIVASA RAO

Assignee(s): CHAPARALA SRINIVASA RAO

Inventor(s): CHAPARALA SRINIVASA RAO

91) Family number: 59685696 (US2015190754A)

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Title: AUTOGENOUS CLEANING FILTRATION METHOD AND DEVICE

Abstract: A device for separating solids from a colloidal solution or suspension utilizing a permeable sheet comprised of passages or openings connecting the up and downstream faces of the sheet, an elastic support, a sealed enclosure separating the solids of the colloidal suspension from the clarified fluid filtered through the device, and a port or other means to allow transfer or collection of filtered fluid under the motivation of a simultaneously applied positive or negative pressure to the sheet. The sheet is affixed to the elastic support in a ballooned state at one or several discrete locations so as to allow transfer of fluid through the sheet while keeping solids outside the seal. The invention also pertains to a method of filtration using the above device to provide autogenous cleaning by alternating the elastic support from a slack and ballooned state during the course of filtration so as to discharge accumulated solids from the surface of the sheet.

Classifications:

International (IPC 8-9): B01D29/01 B01D29/11 B01D29/66

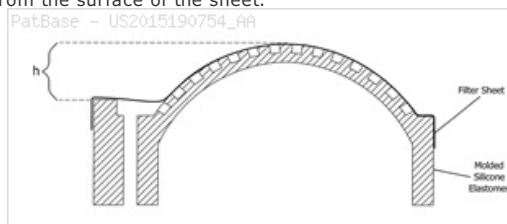
B01D29/70 B01D33/01 B01D39/16 B01D46/10 B01D46/24

B01D63/16 B01D65/02 B01D65/08 B01D69/10 B01D71/36

F04B43/06 F04B43/073 (Advanced/Invention)

CPC: B01D65/02 B01D71/36 F04B43/06 B01D2321/30 B01D63/16
B01D65/08 B01D69/10 B01D2201/184 B01D2313/243 B01D2315/04
B01D2321/2058 F04B53/20

US: 210/391 210/636 210/791 417/472



Family:

Publication number	Publication date	Application number	Application date
CN106061590 A	20161026	CN201580011882	20150106
DE602015012710 D1	20180726	DE201560012710T	20150106
EP3092059 A1	20161116	EP20150703327	20150106
EP3092059 B1	20180627	EP20150703327	20150106
JP2017502840 T2	20170126	JP20160562478T	20150106
JP6356827 B2	20180711	JP20160562478T	20150106
US2015190754 AA	20150709	US20150589068	20150105
WO15103572 A1	20150709	WO2015US10215	20150106

Priority:

US20140923977P 20140106 US20150589068 20150105 EP20150703327 20150106
WO2015US10215 20150106

Probable Assignee: W L GORE AND ASSOCIATES INC

Assignee(s): (std): GORE AND ; GORE AND ASS

Assignee(s): W L GORE AND ASSOCIATES INC ; WL GORE AND ASSOCIATES INC ; WL GORE AND ASSOCIATES

INC NEWARK

Inventor(s): (std): HARP GARY P

Inventor(s): HARP GARY P NEWARK

Agent(s): KLUNKER SCHMITT NILSON HIRSCH; HGF LTD; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; WHEATCRAFT ALLAN M ET AL

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

92) Family number: 2946703 (US5359522A)

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Title: FLUID DELIVERY CONTROL APPARATUS

Abstract: Apparatus for two-way communication of information between a fluid container and a fluid delivery device. The fluid container has an associated first information storage and retrieval device and the fluid delivery device has an associated second information storage and retrieval device. Upon initiation of a fluid delivery transaction a communication link is established between the first and second information storage and retrieval devices and will proceed only if appropriate authorization is received by the second information storage and retrieval device. Information regarding the fuel delivery transaction may be stored on either or both of the storage and retrieval devices and may be communicated to another local or remote device for further processing.

Classifications:

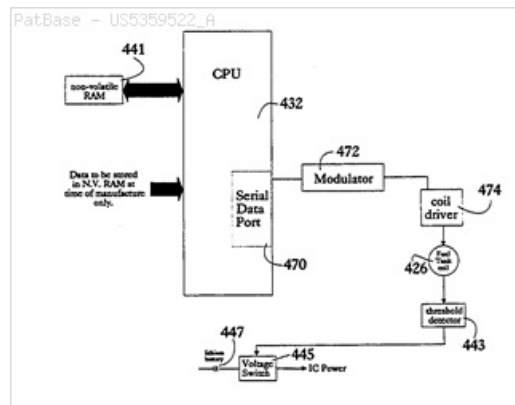
International (IPC 8-9): B67D5/08 B67D5/14 B67D5/37 B67D7/08 B67D7/14 B67D7/42 G07C5/00 G07C5/08 (Advanced/Invention); B67D7/08 B67D7/42 G07C5/00 (Core/Invention)

International (IPC 1-7): B67D5/02 B67D5/08 B67D5/33 G05D7/00 G06F15/20 G06F15/21 G06F17/60 G06F7/04 H04B5/02

CPC: B67D7/08 B67D7/145 B67D7/425 G06Q50/06 G07C5/008 G07C5/085

European: B67D7/08 B67D7/14B B67D7/42E G06Q50/06 G07C5/00T G07C5/08R2

US: 235/382 340/10.51 340/5.4 340/5.9 340/825.34 364/465 705/413



Family:

Publication number	Publication date	Application number	Application date
AT109751 E	19940815	AT19910304026T	19910503
AU199176434 A1	19911114	AU19910076434	19910508
AU643519 B2	19931118	AU19910076434	19910508
CA2042240 AA	19911110	CA19912042240	19910509
CA2042240 C	19971202	CA19912042240	19910509
DE69103325 D1	19940915	DE19916003325	19910503
DE69103325 T2	19950406	DE19916003325	19910503
EP0456425 A1	19911113	EP19910304026	19910503
EP0456425 B1	19940810	EP19910304026	19910503
ES2064042 T3	19950116	ES19910304026T	19910503
US5359522 A	19941025	US19930059508	19930511

Priority:

US19900520727 19900509 CA19912042240 19910509 US19920902545 19920622
US19930059508 19930511

Probable Assignee: RYAN MICHAEL C MITCHELVILLE IA US

Assignee(s): (std): MICHAEL C RYAN ; RYAN MICHAEL C

Assignee(s): RYAN MICHAEL C MITCHELVILLE IA US ; SENECA DISTRIBUTION LC ; ACME HOLDINGS LLC ; EARLHAM SAVINGS BANK

Inventor(s): (std): RYAN MICHAEL C

Inventor(s): MICHAEL C RYAN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BORDEN LADNER GERVAIS LLP

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

93) Family number: 71114714 (US2018257925A)

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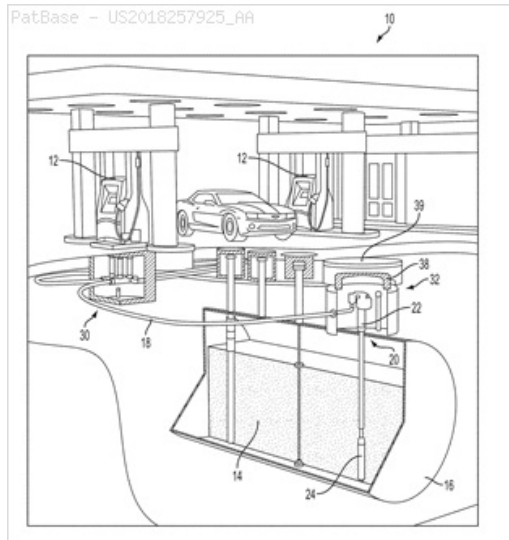
Title: METHOD AND APPARATUS FOR LIMITING ACIDIC CORROSION AND CONTAMINATION IN FUEL DELIVERY SYSTEMS

Abstract: A method and apparatus are provided for controlling a fuel delivery system to limit acidic corrosion. An exemplary control system includes a controller, at least one monitor, an output, and a remediation system. The monitor of the control system may collect and analyze data indicative of a corrosive environment in the fuel delivery system. The output of the control system may automatically warn an operator of the fueling station of the corrosive environment so that the operator can take preventative or corrective action. The remediation system of the control system may take at least one corrective action to remediate the corrosive environment in the fuel delivery system.

Classifications:

International (IPC 8-9): B01D17/04 B01D35/00 B01D36/00 B67D7/32 B67D7/62 B67D7/68 B67D7/72 B67D7/76 B67D7/78 F02M37/22 G01N33/28 (Advanced/Invention); B67D7/32 B67D7/76 F16L58/00 F28F19/00 (Advanced/Non-invention)

CPC: B67D7/766 B01D17/045 B01D36/005 B01D36/006 B67D7/32
B67D2210/0001 G01N33/2858 B67D7/78 B67D7/68 B67D7/725
B67D7/76 B67D2007/329 F28F19/00 B01D35/02 F02M37/24
F02M37/44 B67D7/3209 B67D7/62



Family:

Publication number	Publication date	Application number	Application date
US2018257925 AA	20180913	US20180914535	20180307
WO18165305 A2	20180913	WO2018US21350	20180307
WO18165305 A3	20181115	WO2018US21350	20180307

Priority:

US20170468033P 20170307 US20170509506P 20170522 US20170520891P 20170616
US20170563596P 20170926 US20180914535 20180307

Probable Assignee: FRANKLIN FUELING SYSTEMS LLC

Assignee(s): (std): BREUER TODD ; FRANKLIN FUELING SYSTEMS LLC

Inventor(s): (std): TURNIDGE MARTIN ; SCHULTZ NICHOLAS ; RISCH GEORGE ; NOVAK JAMES ; NELSON BILL ; BREUER TODD ; BOUCHER RANDALL

Agent(s): DREWRY JAMIE

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 DJ 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 JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM 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

94) Family number: 69019723 (US2018087450A)

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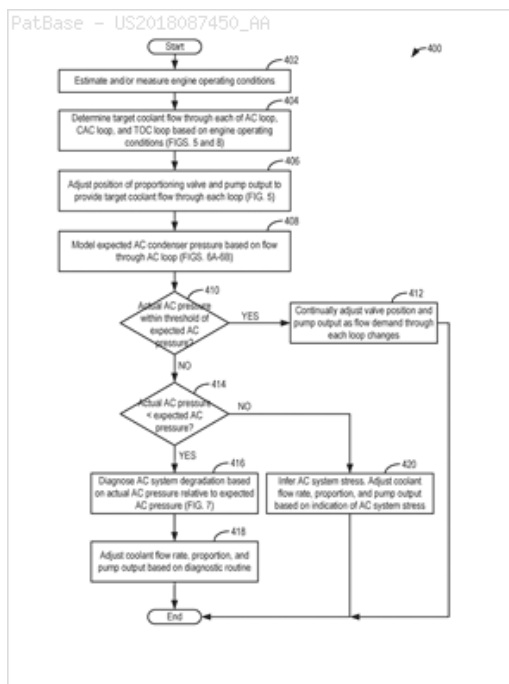
Title: METHODS AND SYSTEMS FOR COOLANT SYSTEM

Abstract: Methods and systems are provided for controlling coolant flow through parallel branches of a coolant circuit including an AC condenser and a charge air cooler. Flow is apportioned responsive to an AC head pressure and a CAC temperature to reduce parasitic losses and improve fuel economy. The flow is apportioned via adjustments to a coolant pump output and a proportioning valve.

Classifications:

International (IPC 8-9): B60H1/00 B60H1/32 F01P3/12 F01P3/20 F01P7/14 F01P7/16 F01P9/06 F02B29/04 F16H41/30 F16H57/04 (Advanced/Invention)

CPC: F02B29/0493 F01P3/20 F01P7/14 F01P2007/146 B60H1/3208 F02B29/0443 B60H1/00271 B60H1/3211 F01P2050/22 F01P2060/12 F01P2060/14 F16H41/30 F16H57/0412 B60H1/00885 F01P7/165 F01P9/06 F01P2060/02 F01P2060/045 Y02T10/146



Family:

Publication number	Publication date	Application number	Application date
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CN107869381 A	20180403	CN201710845841	20170919
DE102017122339 A1	20180329	DE201710122339	20170926
US2018087450 AA	20180329	US20160277979	20160927

Priority:

US20160277979 20160927

Probable Assignee: FORD GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): FORD GLOBAL TECH LLC ; FORD GLOBAL TECHNOLOGIES INC

Assignee(s): FORD GLOBAL TECHNOLOGIES LLC

Inventor(s): (std): ZHAOYANG ZENG ; JOHN SMILEY III ; DAVID KARL BIDNER ; AMEY Y KARNIK ; ZENG ZHAOYANG ; SMILEY III JOHN ; KARNIK AMEY Y ; BIDNER DAVID KARL

95) Family number: 60613727 (US2016151427A)

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Title: AMMONIA OXIDIZING BACTERIA FOR TREATMENT OF ACNE

Abstract: A method for treating a skin disorder, e.g., acne, e.g. acne vulgaris, in a subject is provided. The method comprises administering, e.g., applying, e.g., topically administering, ammonia oxidizing bacteria, e.g., a preparation comprising ammonia oxidizing bacteria, to a surface of the subject. Preparations comprising ammonia oxidizing bacteria for treating such skin disorder, e.g., acne, e.g. acne vulgaris in a subject are also provided.

Classifications:

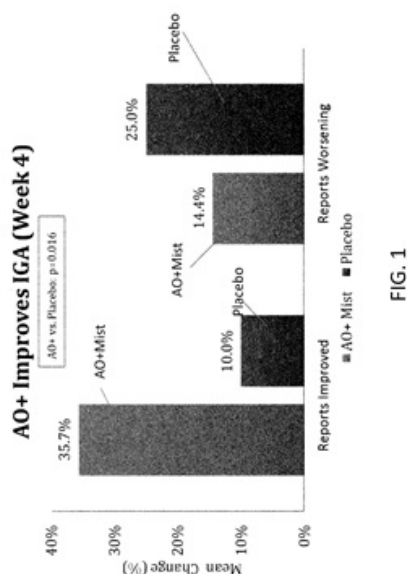
International (IPC 8-9): A01N63/00 A41B17/00 A41D31/00 A61K A61K31/17 A61K31/194 A61K31/202 A61K31/327 A61K31/60 A61K33/02 A61K35/66 A61K35/74 A61K35/741 A61K35/744 A61K35/745 A61K35/747 A61K45/00 A61K47/02 A61K47/04 A61K48/00 A61K8/02 A61K8/18 A61K8/34 A61K8/362 A61K8/365 A61K8/42 A61K8/44 A61K8/60 A61K8/64 A61K8/73 A61K8/92 A61K8/97 A61K8/9789 A61K8/99 A61K9/00 A61K9/02 A61K9/06 A61K9/10 A61K9/12 A61K9/14 A61K9/70 A61L15/36 A61P13/12 A61P15/00 A61P17/00 A61P17/02 A61P17/04 A61P17/06 A61P17/10 A61P17/14 A61P29/00 A61P3/04 A61P3/10 A61P31/04 A61P31/18 A61P35/00 A61P37/06 A61P37/08 A61P43/00 A61P9/00 A61P9/04 A61P9/08 A61P9/10 A61P9/12 A61Q A61Q15/00 A61Q17/04 A61Q19/00 A61Q19/08 A61Q19/10 A61Q5/02 A61Q5/12 C07K14/195 C12N C12N1/00 C12N1/20 C12N1/21 C12N15/09 C12N15/31 C12Q1/02 C12Q1/04 C12Q1/06 C12Q1/68 C12Q1/689 C12R1/01 D06M16/00 (Advanced/Invention); A61Q19/02 A61Q19/04 C12R1/01 (Advanced/Non-invention); A61Q (Subclass/Invention)

International (IPC 1-7): A61K35/74 A61P17/10

CPC: C12Q1/689 A61K9/0014 A61K8/99 A61Q5/12 A61K35/747 A61K35/744 A61K35/745 A61Q17/04 A01N63/00 C12Q1/02 C12N1/20 A61K35/74 C12R1/01 A61K48/00 A61L15/36 A61Q19/00 C07K14/195 C12N1/00 A61K8/442 A61K8/345 A61K8/362 A61K8/602 A61K8/731 A61K8/97 A61K2800/81 A61P17/00 A61P17/10 A61Q15/00 A61Q19/02 A61Q19/04 A61K35/741 A41D31/00 A61K48/005 C12Q1/04 D06M16/003 A61K8/9789 A61K8/44 A61K2800/87 A61K8/645 A61K2800/30 A61Q5/02 A61Q19/10 A41D31/30

US: 424/59 424/93.4 435/252.1

PatBase - US2016151427_AA



Family:

Publication number	Publication date	Application number	Application date
AU2015247710 AA	20161103	AU20150247710	20150415
AU2016287746 AA	20180125	AU20160287746	20160701
AU2016288256 AA	20180125	AU20160288256	20160701
BR112018000053 A2	20180904	BR20181100053	20160701
BR112018000056 A2	20180904	BR20181100056	20160701
CA2946050 AA	20161014	CA20152946050	20150415
CA2991116 AA	20171228	CA20162991116	20160701
CA2991170 AA	20171229	CA20162991170	20160701
CN106456678 A	20170222	CN201580032516	20150415
CN108367029 A	20180803	CN201680049386	20160701
CN109069878 A	20181221	CN201680049387	20160701
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EP3316900 A1	20180509	EP20160739645	20160701
EP3316971 A2	20180509	EP20160741200	20160701
HK1234776 A1	20180223	HK20170108392	20170821
IL256595 A0	20180228	IL20160256595	20160701
IL256617 A0	20180228	IL20160256617	20160701
IN201617038876 A	20170825	IN201617038876	20161115
IN201717046680 A	20180316	IN201717046680	20171226
IN201817003507 A	20180511	IN201817003507	20180130
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KR20170002440 A	20170106	KR20167031459	20150415
KR20180022930 A	20180306	KR20187002867	20160701
KR20180022934 A	20180306	KR20187002887	20160701
MX2018000075 A1	20180515	MX20180000075	20160701
MX2018000274 A1	20180522	MX20180000274	20160701
PH2018500015 A	20180709	PH20180500015	20180103
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US2016151427 AA	20160602	US20150882284	20151013
US2017037363 AA	20170209	US20150304151	20150415
US2018016544 AA	20180118	US20170649323	20170713
US2018237738 AA	20180823	US20180958803	20180420
US2018369129 AA	20181227	US20160741417	20160701
US2019010446 AA	20190110	US20180137291	20180920
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WO15160911 A2	20151022	WO2015US25909	20150415
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WO17004534 A2	20170105	WO2016US40723	20160701
WO17004534 A3	20170330	WO2016US40723	20160701
WO17004557 A1	20170105	WO2016US40756	20160701

Priority:

GR20140100217	20140415	US20140002084P	20140522	US20140012811P	20140616
US20140053588P	20140922	GR20150100115	20150313	WO2015US25909	20150415
US20150304151	20150415	US20150188343P	20150702	US20150189105P	20150706
US20150882284	20151013	US20160741417	20160701	WO2016US40723	20160701
WO2016US40756	20160701	US20170649323	20170713	US20180958803	20180420
US20180137291	20180920				

Probable Assignee: AOBIOME LLC

Assignee(s): (std): AOBIOME LLC

Assignee(s): GRYLLOS IOANNIS ; JAMAS SPIROS ; MBX LLC ; WHITLOCK DAVID R ; WEISS LARRY

Inventor(s): (std): DAVID R WHITLOCK ; LARRY WEISS ; SPIROS JAMAS ; WHITLOCK DAVID R ; WEISS LARRY ; JAMAS SPIROS ; GRYLLOS IOANNIS

Agent(s): DAVIES COLLISON CAVE PTY LTD; SPRUSON AND FERGUSON; SMART AND BIGGAR; RAI MONIKA; HK PAT IP LTD; LANDO AND ANASTASI LLP; ANASTASI JOHN N; ANASTASI JOHN N ET AL

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

96) Family number: 5223728 (US5168836A)

© PatBase

Title: Emission control system

Abstract: Disclosed herein is an emission control system including an air pretreatment system for enhancing the ability of air passing therethrough to absorb moisture, a humidification chamber having an inlet and an outlet, the inlet being attached to the air pretreatment system, the pretreated air passing from the air pretreatment system into the inlet and through the humidification chamber so that it is humidified at a consistently controllable rate in its passage through the humidification chamber to and out of the outlet.

Classifications:

International (IPC 8-9): F02M25/00 F02M27/02 (Advanced/Invention);

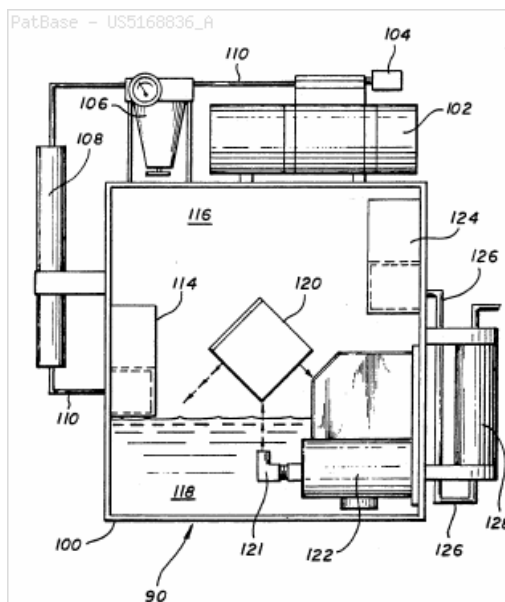
F02M25/00 F02M27/00 (Core/Invention)

International (IPC 1-7): F02M25/00 F02M25/02

CPC: F02M25/00 F02M27/02

European: F02M25/00 F02M27/02

US: 123/198A 123/25F 261/111 261/115 261/91 431/4



Family:

Publication number	Publication date	Application number	Application date
US5168836 A	19921208	US19900564279	19900808

Priority:

US19900564279 19900808

Probable Assignee: IEC LLC

Assignee(s): (std): CATALYTIC SOLUTIONS INC

Assignee(s): IEC LLC ; AMERICAN TECHNOLOGIES GROUP INC ; CAMPBELL GAINES P

Inventor(s): (std): KRAUS GREGORY

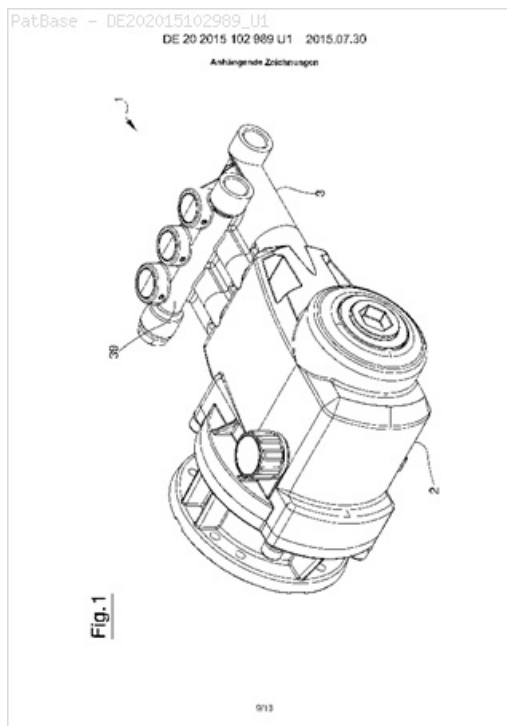
Title: PUMPE ZUR VERARBEITUNG EINER FLUESSIGKEIT

Abstract: Source: DE202015102989U1 [DE] Pumpe, umfassend eine Vielzahl von Kolben (4) und eine Antriebswelle (6) zum Antreiben der Kolben (4) dieser Vielzahl, sodass jeder Kolben (4) sich im Inneren eines jeweiligen Zylinders vor und zurueck bewegt, um das Volumen einer entsprechenden Kammer (5) zu variieren, wobei jede Kammer (5) ueber ein Saugventil (37) verfuegt, das betaetigt werden kann, um einer Fluessigkeit zu ermoeeglichen, in die Kammer (5) zu stroemen, und ueber ein Druckventil, das betaetigt werden kann, um dieser Fluessigkeit zu ermoeeglichen, aus der Kammer (5) auszustroemen, wobei die Antriebswelle (6) einen verlaengerten Koerper (7) umfasst, an dem eine Vielzahl von Nocken (8) montiert ist, von denen jeder Nocken (8) als ein vom verlaengerten Koerper (7) getrenntes Bauteil ausgefuehrt ist und ueber eine uebermasspassung am verlaengerten Koerper (7) befestigt wird, wobei die Nocken (8) als zylindrische Abschnitte ausgestaltet sind, die exzentrisch zur Laengsachse (A) des verlaengerten Koerpers (7) montiert sind, dadurch gekennzeichnet, dass sie ferner eine Vielzahl von Pleueln (11) umfasst, von denen jeder in einen Nocken (8) dieser Vielzahl von Nocken (8) eingreift, um eine Drehbewegung der Antriebswelle (6) um die Laengsachse (A) in eine lineare Bewegung der Kolben (4) umzuwandeln.

Classifications:

International (IPC 8-9): F04B9/04 (Advanced/Invention)

CPC: F04B53/006 F04B53/22 F04B9/042



Family:

Publication number	Publication date	Application number	Application date
CN205117638 U	20160330	CN201520650046U	20150610
DE202015102989 U1	20150730	DE201520102989U	20150609

Priority:

IT2014M000167 20140610

Probable Assignee: LEUCO SPA

Assignee(s): (std): LEUCO SPA

Inventor(s): (std): F PEDRONI ; G PADERNI

Inventor(s): GPADERNI ; FPEDRONI

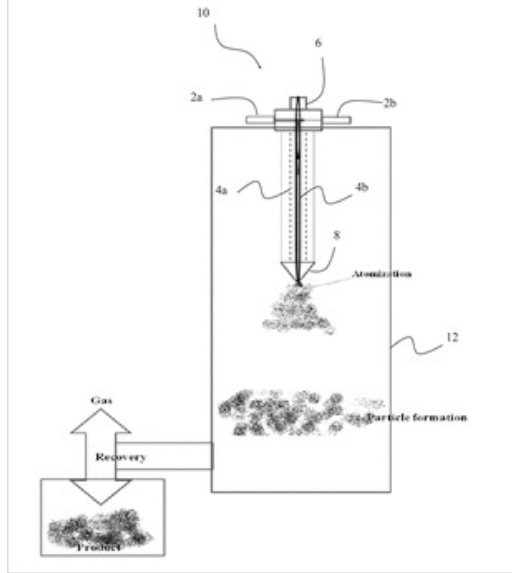
Title: METHOD OF PREPARING MODIFIED MULTILAYERED MICROSTRUCTURES WITH ENHANCED ORAL BIOAVAILABILITY

Abstract: A dual channel spray gun, and method of use thereof, for fabricating nanostructures including a pharmaceutical/therapeutic agent having enhanced oral bioavailability. The nanostructures are a mixture of at least two (2) solutions/media substantially equally distributed as desired. The spray gun device uses gas pressure and/or two ultrasonicators to simultaneously prepare two solution systems for subsequent mixture and atomization. The gas pressure and frequencies of the ultrasonicators are adjustable for each channel of the spray gun. In operation, the spray gun is used to prepare microstructures that, for example, contain at least one active pharmaceutical agent in one solution system and excipients, such as coating or bioadhesives, in the other solution system. Any combination of solution systems is contemplated, such as both systems containing a pharmaceutical agent or both systems containing excipients.

Classifications:

International (IPC 8-9): A61K31/404 A61K9/16 (Advanced/Invention)

CPC: A61K9/1682 A61K9/167 A61K9/1617 A61K31/404

**Family:**

Publication number	Publication date	Application number	Application date
US9968557 BA	20180515	US20160046087	20160217

Priority:

US20110440977P 20110209 US20110561840P 20111119 US20120368993 20120208
 US20160046087 20160217

Probable Assignee:

FLORIDA A AND M UNIV

Assignee(s): (std):

FLORIDA A AND M UNIV

Inventor(s): (std):

PATEL APURVA ; SACHDEVA MANDIP

Agent(s):

NILAY J; SMITH AND HOPEN PA

99) Family number: 53118758 (TR201109885A)

© PatBase

Title: GSM/SMS KONTROLLUE PROGRAMMABLE IRRIGATION AUTOMATION DEVICE. GSM/SMS KONTROLLUE PROGRAMLANABILIR SULAMA OTOMASYON CIIHAZI. (Machine translation)

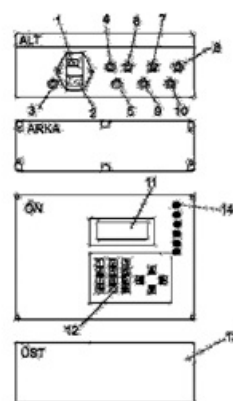
Abstract: Source: TR201109885A

Machine translation: The present invention is related to the irrigation system can be controlled remotely , oezelligi of the device that allows opening and closing of the AC on / off switch (1), the pump and solenoid providing the proper voltage 220v input (2), the system that supplies voltage to 12v 12v input (3), the temperature information about the system error log that states 1 (4), well water level data reporting system fault input 2 (5), the water is transferred from its source to the system with water provided and the related controls pump output (6), the system that controls the vana1 general the output valves (7), vana2 output (8), vana3 output (9), vana4 general the output (10) of the device setting, the present value, the current time and menuelerin goeruelebildiği lcd screen (11), which provides data entry keypad (12), allowing to connect gsm / gprs modem, antenna input (13), pumps and valves is active or passive goesteren leds (14) is characterized in that it comprises. Figure 3

[TR] Bulus uzaktan kontrol edilebilen sulama sistemi ile ilgili olup, oezelligi; cihazın acilip kapanmasını sağlayan ac/kapa anahtarı (1), pompa ve selenoidlere uygun gerilim sağlayan 220v giriş (2), sisteme 12v gerilim sağlayan 12v girişi (3), sıcaklıkla ilgili bilgileri sisteme bildiren hata girişi 1 (4), kuyu suyu seviyesi ile bilgileri sisteme bildiren hata girişi 2 (5), su kaynagından çıkan su ile ilgili kontrollerin saglandığı ve sisteme aktarıldığı pompa çıkışı (6), sistemdeki vanaları denetleyen vana1 çıkışı (7), vana2 çıkışı (8), vana3 çıkışı (9), vana4 çıkışı (10), cihazın ayar, mevcut deger, mevcut zaman ve menuelerin goeruelebildiği lcd ekran (11), veri girişinin yapılmasını sağlayan tus takımı (12), bağlantıyı sağlayan gsm/gprs modem anten girişi (13), pompaların ve vanaları aktif ya da pasif olduğunu goesteren ledleri (14) içermesi ile karakterize edilir. Sekil 3.

Classifications:

International (IPC 8-9): A01G25/16 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
TR201109885 A2	20120424	TR20110009885	20111005

Priority:

TR20110009885 20111005

Probable Assignee: FIDAN UGUR**Assignee(s):** (std): FIDAN UGUR ; KARASEKRETER NAIM**Assignee(s):** NAIM KARASEKRETER ; UGUR FIDAN**Inventor(s):** (std): FIDAN UGUR ; KARASEKRETER NAIM**Inventor(s):** NAIM KARASEKRETER ; UGUR FIDAN**100) Family number: 61701768 (WO16025934A1)**

© PatBase

Title: SELF-CONTAINED PORTABLE OZONE STERILIZER FOR SMALL MEDICAL EQUIPMENT**Abstract:** This invention is directed to a portable lightweight, easy-carry, reusable, and self-contained assembly for sterilizing contaminated equipment using ozone and humidity generated in situ without requiring external electricity, fuels or other exogenous energy sources for operation and a method of use thereof.**Classifications:****International (IPC 8-9):** A61L2/20 (Advanced/Invention)**CPC:** A61L2/202

PatBase - WO16025934_A1

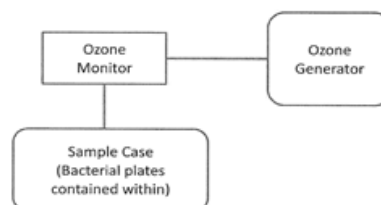


FIG 1

Family:

Publication number	Publication date	Application number	Application date
WO16025934 A1	20160218	WO2015US45434	20150815

Priority:

US20140038171P 20140815

Probable Assignee: US NAVY**Assignee(s):** (std): US NAVY**Assignee(s):** SECRETARY OF NAVY AS US GOV**Inventor(s):** (std): ALVAREZ RENE ; BURDETTE ALEXANDER JUSTIN ; DORY ROY EDWARD**Agent(s):** YANG NING**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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN

101) Family number: 29611777 (WO9942814A1)

© PatBase

Title: APPARATUS AND METHOD FOR THE MEASUREMENT OF GLOBAL CARBON EMISSIONS FROM NATURAL AND ANTHROPOGENIC SOURCES

Abstract: The invention is an apparatus and method for precisely measuring concentration and isotope ratios of a component in a gas mixture. In one embodiment, the apparatus is designed to provide a portable and field deployable system capable of providing concentration and isotope ratio measurements in remote locations without physical intervention. In further embodiments, the apparatus is deployed to measure carbon dioxide in the atmosphere in order to determine the source of the carbon dioxide. An embodiment of the method includes measuring additional or different components of other gas mixtures.

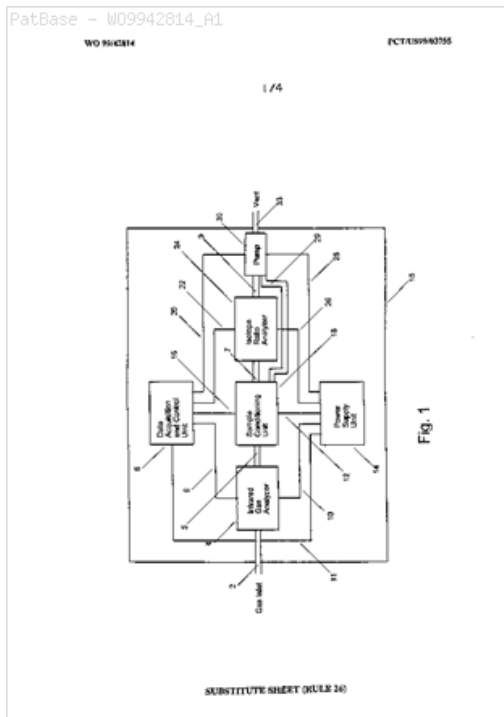
Classifications:

International (IPC 8-9): G01N21/35 G01N33/00 (Advanced/Invention);
G01N21/31 G01N33/00 (Core/Invention)

International (IPC 1-7): G01N21/35 G01N33/00

CPC: Y02A90/13 G01N33/004 G01N21/3504

European: G01N21/35B G01N33/00D2D4C

**Family:**

Publication number	Publication date	Application number	Application date
AU199926889 A1	19990906	AU19990026889	19990219
WO9942814 A1	19990826	WO1999US03755	19990219

Priority:

US19980075338P 19980220 US19990253552 19990219 WO1999US03755 19990219

Probable Assignee: EMMONS MATT

Assignee(s): (std): BRUNO D MARINO ; EMMONS MATT ; MARINO BRUNO D ; MATT EMMONS

Inventor(s): (std): EMMONS MATT ; MARINO BRUNO D

Inventor(s): MATT EMMONS ; BRUNO D MARINO

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

102) Family number: 44573780 (US2011143233A)

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Title: FUEL CELL SYSTEM AND CONTROL METHOD THEREFOR

Abstract: A fuel cell system for optimally controlling an amount and temperature of liquid component stored in a gas-liquid separator, and its control method. The fuel cell system includes a fuel cell, a pump for supplying gas to the fuel cell, a gas-liquid separator for storing a liquid component discharged at least from a cathode side of the fuel cell, a cooler for cooling the stored liquid component, a temperature detector for measuring temperature of liquid component, a liquid level detector for measuring an amount of liquid component, and a controller for controlling a flow rate of gas from the pump and heat discharge by the cooler. The controller controls at least heat discharge by the cooler or a flow rate of gas supplied from the pump based on an output of the temperature detector and an output of the liquid level detector.

Classifications:

International (IPC 8-9): H01M8/04 H01M8/06
H01M8/10 (Advanced/Invention);

H01M8/00 H01M8/10 (Advanced/Non-invention);

H01M8/04 H01M8/06 (Core/Invention);

H01M8/00 H01M8/10 (Core/Non-invention)

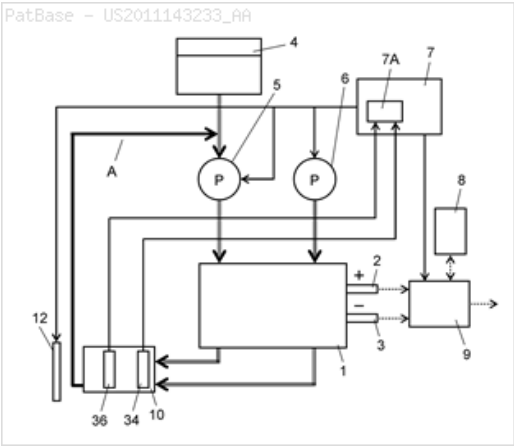
CPC: Y02B90/18 H01M8/1011 H01M8/04007 H01M8/04164

H01M8/04186 H01M8/04291 H01M8/0432 H01M8/04492

H01M8/04701 H01M8/04753 H01M8/04828 H01M2250/30 Y02E60/523

European: H01M8/04B H01M8/04C2E2A H01M8/04C4 H01M8/04F

H01M8/04H4B H01M8/04H4H H01M8/04H6B H01M8/04H6D2



Family:

Publication number	Publication date	Application number	Application date
DE602009019249 D1	20131128	DE200960019249T	20090827
EP2306571 A1	201110406	EP20090812845	20090827
EP2306571 A4	201111102	EP20090812845	20090827
EP2306571 B1	20131002	EP20090812845	20090827
JP2010067486 A2	20100325	JP20080233202	20080911
JP5407235 B2	20140205	JP20080233202	20080911
US2011143233 AA	20110616	US20090057081	20090827
WO10029696 A1	20100318	WO2009JP04154	20090827

Priority:

JP20080233202 20080911 EP20090812845 20090827 WO2009JP04154 20090827

Probable Assignee: PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO LTD

Assignee(s): (std): KIMURA TADAO ; KOZU KATSUMI ; MITSUI MASAKI ; PANASONIC CORP

Assignee(s): PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO LTD ; PANASONIC KADOMA SHI CORP

Inventor(s): (std): KIMURA TADAO ; MITSUI MASAKI ; KOZU KATSUMI ; TAKATSU KATSUMI

Inventor(s): KOZU KATSUMI 1 61 SHIROMIR 2 CHOME CHUO KU OSAKA SHI ; KIMURA TADAO 1 61 SHIROMIR 2 CHOME CHUO KU OSAKA SHI ; MITSUI MASAKI 1 61 SHIROMIR 2 CHOME CHUO KU OSAKA SHI

Agent(s): SCHWABE SANDMAIR MARX; NAITO HIROKI 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 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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

103) Family number: 10415783 (DE4126089A1)

© PatBase

Title: Flexible tube for peristaltic pump - has non-return valve in deformable section of outlet

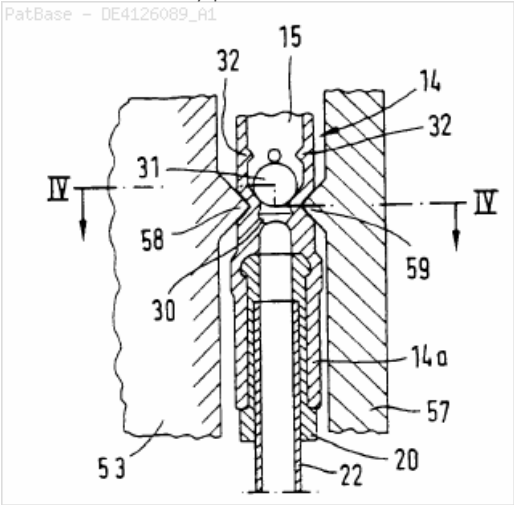
Abstract: A flexible tube has an upper intake section (12), a central section (11) which acts as the pump, and a bottom outlet section (13). The tube (15) is narrowed by an annular seat (30) at the bottom of a deformable part (14) of the outlet section (13). A valve body (31) sits on the seat (30) and shuts off the tube (15). When acted on by an outside force the valve body (31) lifts from the seat (30) and opens the duct (15). USE/ADVANTAGE - Automatically prevents uncontrolled flow.

Classifications:

International (IPC 1-7): A61M5/142 F04B43/12

CPC: A61M5/14228 A61M39/08 A61M39/24 F04B43/0072 F04B43/082 F04B2205/05

European: A61M39/08 A61M5/142G6 F04B43/00D8T F04B43/08B K61M39/24 R04B205/05



Family:

Publication number	Publication date	Application number	Application date
DE4126089 A1	19930211	DE19914126089	19910807

Priority:

DE19914126089 19910807

Probable Assignee:	BRAUN MELSUNGEN AG
Assignee(s): (std):	BRAUN MELSUNGEN AG
Assignee(s):	B BRAUN MELSUNGEN AG 3508 MELSUNGEN DE
Inventor(s): (std):	KNUTH REINHARD
Inventor(s):	KNUTH REINHARD 3508 MELSUNGEN DE

104) Family number: 1253783 (US4294704A)

Title: PROCESS FOR THE MANUFACTURE OF PRINTING PAPER AND BOARD

Abstract: Aqueous latex base binder of a synthetic polymer for preparing aqueous compositions for coating paper and board for printing, having improved wet and dry tear strength. The content in the latex of hydrosoluble compounds dissolved in the aqueous phase is less than 0.5 percent by weight in relation to the polymer.

Classifications:

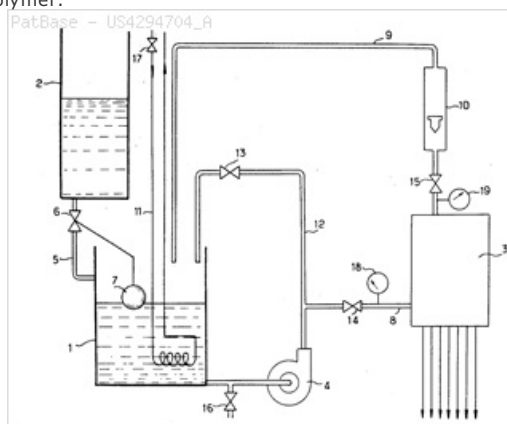
International (IPC 8-9): B32B27/12 C08F6/00 C08F6/16 D21H19/44 D21H19/58 D21H19/60 (Advanced/Invention); B32B27/12 C08F6/00 D21H19/00 (Core/Invention)

International (IPC 1-7): B01D13/00 B32B27/12 B32B29/00
C02F1/44 C08F2/22 C08F6/14 C08F6/16 C08F6/20 C08L101/00
C08L25/10 C08L31/04 C08L9/08 C09D3/727 C09J3/16 D21F3/10
D21H1/22 D21H1/28 D21H3/00 D21H3/36 D21H3/38 D21H3/64

CPC: Y10T428/31902 Y10T428/31906 Y10T428/31993 D21H19/58
C08F6/16 D21H19/60

European: C08F6/16 D21H19/58 D21H19/60

US: 210/651 427/361 427/391 428/513 428/514 428/537.5



Family:

Publication number	Publication date	Application number	Application date
AR218061 A1	19800515	AR19780271712	19780406
AT288678 A	19810615	AT19780002886	19780421
AT365679 B	19820210	AT19780002886	19780421
BE866264 A	19781023	BE19780187022	19780421
BR7802424 A	19790123	BR19780002424	19780419
CA1119332 A1	19820302	CA19780301748	19780421
CH630677 A	19820630	CH19780004334	19780421
DE2817227 A1	19781026	DE19782817227	19780420
DE2817227 B2	19791025	DE19782817227	19780420
DK146726 B	19831212	DK19780001738	19780420
DK146726 C	19840521	DK19780001738	19780420
DK173878 A	19781023	DK19780001738	19780420
ES469032 A1	19790116	ES19780469032	19780421
FI68852 B	19850731	FI19780001199	19780419
FI68852 C	19851111	FI19780001199	19780419
FI781199 A	19781023	FI19780001199	19780419
FR2388077 A1	19781117	FR19770012159	19770422
FR2388077 B1	19821105	FR19770012159	19770422
GB1578108 A	19801029	GB19780015715	19780420
IE46801 B	19830921	IE19780000789	19780421
IE780789 L	19781022	IE19780000789	19780421
IT1104813 A	19851028	IT19780049008	19780421
IT7849008 A0	19780421	IT19780049008	19780421
JP1130916 C3	19830117	JP19780047142	19780420
JP53143713 A2	19781214	JP19780047142	19780420
JP57017120 B4	19820408	JP19780047142	19780420
LU79469 A	19781128	LU19780079469	19780419
MX5597 U	19831104	MX19780101074U	19780421
NL7804305 A	19781024	NL19780004305	19780421
NO149072 B	19831031	NO19780001399	19780421
NO149072 C	19840208	NO19780001399	19780421
NO781399 A	19781024	NO19780001399	19780421
PT67938 A	19780501	PT19780067938	19780421
PT67938 B	19791017	PT19780067938	19780421
SE439510 B	19850617	SE19780004605	19780421
SE439510 C	19850926	SE19780004605	19780421
SE7804605 A	19781023	SE19780004605D	19780421
US4294704 A	19811013	US19800135239	19800331
YU94378 A	19830121	YU19780000943	19780420

Priority:

FR19770012159 19770422	US19780898953 19780421	MX19780173209 19780421
BE19780866264 19781023		

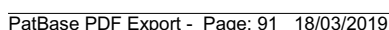
Probable Assignee: RHONE POULENC IND

Assignee(s): (std): RHONE POULENC IND

Assignee(s): RHONE POULENC IND PARIS ; RHONE POULENC IND SA ; RHONE POULENC IND SOC ; RHONE POULENC

Inventor(s): GROSSELEIL JACQUES PARIS ; ROULLET ROBERT LYON ; DANIEL JEAN CLAUDE FONTENAY ; DANIEL JC ; J C DANIEL ; J GROSSELEIL ; JACQUES GROSSELEIL ; JEAN CLAUDE DANIEL ; JEAN CLAUDE DANIEL JACQUES GROSSELEIL ET ROBERT RO ; JEAN CLAUDE DANIEL JACQUES GROSSELEIL ET ROBERT ROULLET ; JEAN CLAUDE DANIEL JACQUES GROSSELEIL ET... ; R ROULLET ; ROBERT ROULLET

US: 236/12.13 236/12.130P 236/44.00AS 236/44A 236/44C 62/186



Title: Vapor control system for and a liquid electrographic system

Abstract: A vapor control system and an electrophotographic system having a vapor control system for reducing vapor emissions. A vapor collection mechanism collects at least some of the vaporized carrier which is then transmitted to a container having a vapor inlet and a vapor outlet containing a cooling liquid, the cooling liquid having a temperature less than the temperature of the vaporized carrier but greater than zero degrees Centigrade. A vapor inlet located at a point below the surface of the cooling liquid results in the vaporized liquid bubbling through the cooling liquid and being condensed therein. The cooling liquid is immiscible with water and, preferably is the carrier liquid. Mechanical resistance devices promote increased bubble residence time and smaller bubble size.

Classifications:

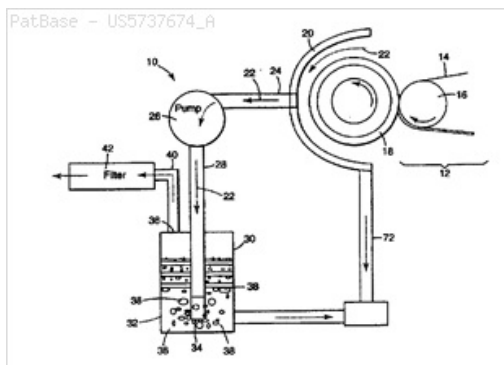
International (IPC 8-9): G03G15/10 G03G15/11 (Advanced/Invention);
G03G15/10 (Advanced/Non-invention);
G03G15/10 G03G15/11 (Core/Invention)

International (IPC 1-7): G03G15/10 G03G15/11

CPC: G03G15/107

European: G03G15/10F

US: 399/250



Family:

Publication number	Publication date	Application number	Application date
DE69620218 D1	20020502	DE19966020218	19961018
DE69620218 T2	20020808	DE19966020218T	19961018
EP0862751 A1	19980909	EP19960936672	19961018
EP0862751 B1	20020327	EP19960936672	19961018
JP2000500590 T2	20000118	JP19970519714T	19961018
KR19990071468 A	19990927	KR19980703739	19961018
US5737674 A	19980407	US19950561080	19951120
WO9719389 A1	19970529	WO1996US16703	19961018

Priority:

US19950561080 19951120 WO1996US16703 19961018

Probable Assignee: 3M CO

Assignee(s): (std): MINNESOTA MINING AND MFG

Assignee(s): MINNESOTA MINING AND MFG CO ; MINNESOTA MINING AND MFG CO SAINT PAUL ; 3M CO ; MINNESOTA MINING AND MANUFACTURING COMPANY

Inventor(s): (std): BAKER JAMES A ; DOWNEY THERESA M ; ROIKO RUSSELL A ; SCHILLI KAY F ; VENKATESAN JAI ; SCHILLI F ; ROIKO A ; DOWNEY M ; BAKER A

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

Title: PUMPENEINHEIT PUMP UNIT (Machine translation)

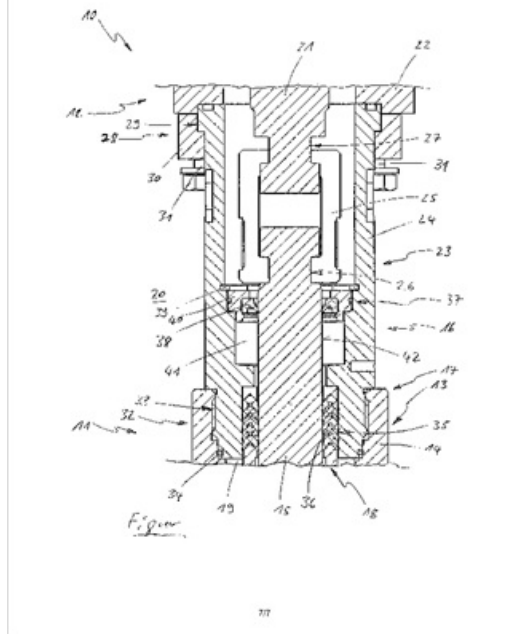
Abstract: Source: DE202016100982U1 [DE] Pumpeneinheit (10) zur Foerderung von Komponentenmaterial, umfassend eine Pumpenvorrichtung (11) und eine Antriebsvorrichtung (12), wobei die Pumpenvorrichtung einen Zylinder (13) und einen in einem Zylinderraum (19) des Zylinders translatorisch bewegbaren Foerderkolben mit einer Kolbenstange (15) aufweist, wobei die Kolbenstange mit einem Antriebsende (16) aus dem Zylinderraum austritt und an die Antriebsvorrichtung gekoppelt ist, wobei eine Zylinderdichteinrichtung (18) der Pumpeneinheit an der Kolbenstange angeordnet ist, wobei die Zylinderdichteinrichtung den Zylinderraum abdichtet, dadurch gekennzeichnet, dass in einem Abstand relativ zur Zylinderdichteinrichtung eine weitere Dichteinrichtung (37) der Pumpeneinheit an der Kolbenstange angeordnet ist, wobei zwischenliegend der Zylinderdichteinrichtung und der weiteren Dichteinrichtung ein Trennmittelraum (41) ausgebildet ist.

Machine translation: The pump unit (10) for the promotion of component material comprising a pump device (11) and a drive device (12), wherein the pump device comprises a cylinder (13) and one in a cylinder chamber (19) of the cylinder movable in translation Foerderkolben with a piston rod (15), said piston rod having a drive end (16) emerges from the cylinder chamber and is coupled to the drive device, wherein a cylinder-sealing means (18) is arranged, the pump unit to the piston rod, wherein the cylinder-sealing means seals the cylinder chamber, characterized in that in a distance relative to the cylinder-sealing means comprises a further sealing means (37) of the pump unit is arranged on the piston rod, wherein a lying cylinder sealing means and further sealing means is formed a release agent chamber (41).

Classifications:

International (IPC 8-9): F04B15/00 F04B53/16 (Advanced/Invention)

CPC: F04B15/00 F04B53/144

**Family:**

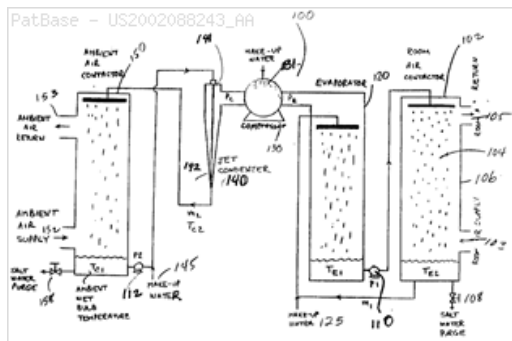
Publication number	Publication date	Application number	Application date
DE202016100982 U1	20160414	DE201620100982U	20160225

Priority:

DE201620100982U 20160225

Probable Assignee: WAGNER WILHELM WIWA**Assignee(s):** (std): WAGNER WILHELM WIWA**Assignee(s):** WIWA WILHELM WAGNER GMBH AND CO KG**(108) Family number: 28243828 (US2002088243A)**

© PatBase

Title: Vapor-compression evaporative air conditioning systems and components**Abstract:** Novel vapor compression evaporative cooling systems which use water as a refrigerant are provided, as are methods for using same. Also provided are novel compressors, compressor components, and means for removing noncondensibles useful in such cooling systems.**Classifications:****International (IPC 8-9):** B01D53/26 C02F1/22 F04B53/00 F04C18/02 F04C18/04 F04C18/10 F04C18/344 F04C18/44 F04C27/00 F04C29/00 F24F13/00 F24F5/00 F25B19/00 F25B29/00 F25B31/00 F25B9/00 (Advanced/Invention); F04C18/04 F04C18/10 F04C18/344 F04C18/44 F25B19/00 F25B9/00 (Advanced/Non-invention)**International (IPC 1-7):** B01D53/26 F04B37/14 F04B39/00 F04B39/00 F04B7/00 F04C18/02 F04C18/02 F04C18/10 F04C18/344 F16C11/06 F16C11/06 F16C33/74 F16M11/14 F24F5/00 F25B1/00 F25B19/00 F25B29/00 F25B43/04 F25B9/00 F25D17/00 F25D17/06 F28D5/00**CPC:** B01D53/265 F04C18/0215 F04C18/0223 F04C18/04 F04C18/10 F04C18/3441 F04C18/44 F04C29/005 F24F5/00 F25B9/002 F25B19/00 F25B29/00**European:** B01D53/26D F04C18/02B2 F04C18/02B2B F04C18/10D F04C29/00D2 F24F5/00 F25B29/00 R04C18/04 R04C18/10 R04C18/344B R04C18/44 R25B19/00 R25B9/00B**US:** 417/202 417/313 417/313P 62/114 62/114S 62/123 62/123P 62/196.4 62/217 62/228.3 62/268 62/268P 62/270 62/304 62/304S 62/305 62/314 62/314S 62/323.1 62/333 62/333S 62/475 62/475S 62/476 62/498 62/498S 62/502 62/92 62/920 62/92S**Family:**

Publication number	Publication date	Application number	Application date
AT253206 E	20031115	AT19990937487T	19990727
AU199952311 A1	20000221	AU19990052311	19990727
AU199952311 A5	20000221	AU19990052311	19990727
CA2340771 AA	20010215	CA19992340771	19990727
DE69912436 D1	20031204	DE19996012436	19990727
DE69912436 D1	20031204	DE19996012436T	19990727
DE69912436 T2	20040819	DE19996012436T	19990727
EP1101070 A2	20010523	EP19990937487	19990727
EP1101070 B1	20031029	EP19990937487	19990727
ES2213378 T3	20040816	ES19990937487T	19990727
US2002088243 AA	20020711	US20010964401	20010928
US2004154328 AA	20040812	US20040768908	20040202
US2006222522 AA	20061005	US20050275410	20051229

US6427453 BA	20020806	US19980126325	19980731
US6684658 BB	20040203	US20010964401	20010928
US7093455 BB	20060822	US20040768908	20040202
WO0006955 A2	20000210	WO1999US16882	19990727
WO0006955 A3	20000908	WO1999US16882	19990727

Priority:

US19980126325 19980731 WO1999US16882 19990727 US20010099644 20010928
US20010964401 20010928 US20040768908 20040202 US20050275410 20051229

Probable Assignee: TEXAS A AND M UNIV SYSTEM

Assignee(s): (std): TEXAS A AND M UNIV SYS ; TEXAS A AND M UNIV SYST ; TEXAS A AND M UNIVERSITY SYST ; THE TEXAS A AND M UNIVERSITY SYSTEM

Assignee(s): THE TEXAS A AND M UNIVERSITY SYSTEM COLLEGE STATIO ; THE TEXAS A AND M UNIVERSITY SYSTEM COLLEGE STATION ; TEXAS A AND M UNIV SYSTEM ; TEXAS A AND M UNIV SYSTEM COLLEGE STATION ; DAVISON RICHARD ; HOLTZAPPLE MARK T ; M UNIVERSITY SYSTEM ; RABROKER G ANDREW ; TEXAS A AMP AMP ; TEXAS A AND M UNIV

Inventor(s): (std): DAVISON RICHARD ; G ANDREW RABROKER ; HOLTZAPPLE MARK T ; MARK T HOLTZAPPLE ; HOLTZAPPLE T ; RABROKER G ANDREW ; RABROKER G A ; RICHARD DAVISON ; RABROKER ANDREW

Inventor(s): RABROKER G ; HOLTZAPPLE MARK

Agent(s): KIRBY EADES GALE BAKER; BAKER BOTTS LLP, C/O INTELLECTUAL PROPERTY DEPARTMENT; BAKER BOTTS LLP C O INTELLECTUAL PROPERTY DEPARTMENT; BAKER BOTTS LLP

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

109) Family number: 33090838 (US2006137099A)

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Title: CONVECTIVE CUSHION WITH POSITIVE COEFFICIENT OF RESISTANCE HEATING MODE

Abstract: A cushion that is heated convectively using a positive coefficient of resistance type resistive heating element that is provided with heat exchanging surfaces, includes a mattress pad, seat or the like with a bottom surface secured around its perimeter to an air permeable top surface, forming a plenum and containing tubular spacer material therein. The plenum is connected to a power unit housing a blower, a heating module and a controller unit. The heating module preferably includes a PTC type heating element in conduction with a base plate and a number of heat exchanger fins. Preferably the heating element is sandwiched between a pair of the base plates and the heat exchanger fins, and there is a seal between the base plates to minimize air flow from the blower from passing there between. A remote control for the user's convenience may be provided, and a foldable antenna attachable to the convective unit facilitates wireless communication between the remote control and controller unit. The user resting atop the cushion is able to control the blower and heating module to deliver air of a desired temperature and quantity to the cushion and through the top surface. The invention advantageously replaces the current carrying, conductive wires and insulation found inside prior art heated mattresses, enhancing safety and performance while at the same time offering a cooled or ventilated capability.

Classifications:

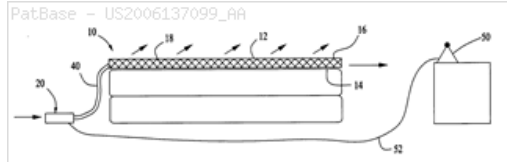
International (IPC 8-9): A47C A47C16/00 A47C21/04 A47C27/00 A47C27/08 A47C27/10 A47C7/74 B60N2/56 B60N3/00 B68G5/00 F22B29/06 F24H3/04 F25B F25B15/00 F25B21/02 F25B27/00 H05B1/00 H05B3/00 (Advanced/Invention); A47C21/00 A47C27/00 A47C27/08 A47C27/10 A47C7/72 B60N3/00 F22B29/00 F24H3/04 F25B15/00 F25B21/02 F25B27/00 H05B1/00 H05B3/00 (Core/Invention); A47C F25B (Subclass/Invention)

International (IPC 1-7): A47C27/00 F25B21/02

CP: B60N2/5685 B60N2/5692 A47C7/744 Y10S5/941 A47C7/748 A47C7/74 A47C7/742 A47C21/044 A47C21/048 A47C27/008 A47C27/082 A47C31/006 B60N2/5635 B60N2/5657

European: A47C21/04B2 A47C21/04H A47C27/00T12 A47C27/08A4 A47C31/00L A47C7/74 A47C7/74B A47C7/74B2 A47C7/74H B60N2/56C4F B60N2/56C4T B60N2/56E2 B60N2/56E4

US: 165/240 165/240S 219/201 219/212 392/397 392/397P 455/39 455/39S 5/421 5/423 5/423P 5/713 5/713P 5/714 5/941 62/3.3 62/3.300P 62/3.4 62/3.400S 62/3.61 62/3.610S 62/326 62/326S 62/36.1



Family:

Publication number	Publication date	Application number	Application date
AU2005321881 AA	20060706	AU20050321881	20051223
AU2005321881 BB	20110804	AU20050321881	20051223
AU2006291202 AA	20070322	AU20060291202	20060905
AU2006291202 BB	20111027	AU20060291202	20060905
CA2602113 AA	20070911	CA20052602113	20051223
CA2622108 AA	20080311	CA20062622108	20060905
CN101340835 A	20090107	CN200680042044	20060905
DE602005043901 D1	20140724	DE200560043901T	20051223
EP1831618 A2	20070912	EP20050856059	20051223
EP1831618 A4	20121212	EP20050856059	20051223
EP1831618 B1	20140611	EP20050856059	20051223
EP1931233 A2	20080618	EP20060814184	20060905
EP1931233 A4	20110810	EP20060814184	20060905
HK1102696 A1	20071130	HK20070110928	20071010
HK1102696 A3	20071130	HK20070110928	20071010
HK1120379 A1	20090403	HK20080113262	20081205
HK1120379 A3	20090403	HK20080113262	20081205
IN01228CN2008 A	20081128	IN2008CN01228	20080312
IN03331CN2007 A	20071116	IN2007CN03331	20070730
IN263631 B	20141114	IN2008CN01228	20080312
IN263647 B	20141114	IN2007CN03331	20070730
JP2008533414 T2	20080821	JP20070549684T	20051223
JP2009507571 T2	20090226	JP20080530140T	20060905
RU2007134097 A	20090320	RU20070134097	20051223

RU2008111048 A	20091020	RU20080111048	20060905
US2006137099 AA	20060629	US20050225605	20050913
US2006137358 AA	20060629	US20040024073	20041228
US2007086757 AA	20070419	US20050243604	20051005
US2007251016 AA	20071101	US20070824260	20070629
US2008000025 AA	20080103	US20070899437	20070906
US2009000031 AA	20090101	US20070973185	20071006
US2009126110 AA	20090521	US20090319397	20090106
US7272936 BB	20070925	US20040024073	20041228
US7480950 BB	20090127	US20050243604	20051005
US7937789 BB	20110510	US20090319397	20090106
WO06072057 A2	20060706	WO2005US47586	20051223
WO06072057 A3	20090416	WO2005US47586	20051223
WO07032970 A2	20070322	WO2006US34587	20060905
WO07032970 A3	20071221	WO2006US34587	20060905
WO09005616 A1	20090108	WO2008US07767	20080620
ZA200707458 A	20090930	ZA20070007458	20070830
ZA200802753 A	20090325	ZA20080002753	20080328

Priority:

US20040024073 20041228 US20050225605 20050913 US20050243604 20051005
EP20050856059 20051223 WO2005US47586 20051223 WO2006US34587 20060905
US20070824260 20070629 US20070899437 20070906 US20070973185 20071006
US20090319397 20090106

Probable Assignee: FEHER STEVE

Assignee(s): (std): FEHER STEVE

Assignee(s): FEHER STEVE NEW HONOLULU ; STEVE FEHER

Inventor(s): (std): FEHER STEVE ; STEVE FEHER

Inventor(s): FEHER STEVE 1505 NEW HONOLULU

Agent(s): MIDDLETONS; K AND L GATES; OYEN WIGGS GREEN AND MUTALA LLP; DENNEMEYER AND ASSOCIATES SA; WEYDERT ROBERT ET AL; LIU SHEN AND ASSOCIATES; MORI HIROYUKI; LAUSON AND ASSOCIATES; ROBERT J LAUSON LAUSON AND ASSOCIATES; LAUSON AND SCHEWE LLP; LAUSON AND TARVER LLP; ROBERT J; LAUSON AND ASSOCIATE LLP; LAUSON ROBERT J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

110) Family number: 56547838 (US2015290217A)

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Title: MALE TESTOSTERONE TITRATION METHODS, MALE INTRANASAL TESTOSTERONE BIO-ADHESIVE GEL FORMULATIONS AND USE THEREOF FOR TREATING HYPOGONADISM AND TRT

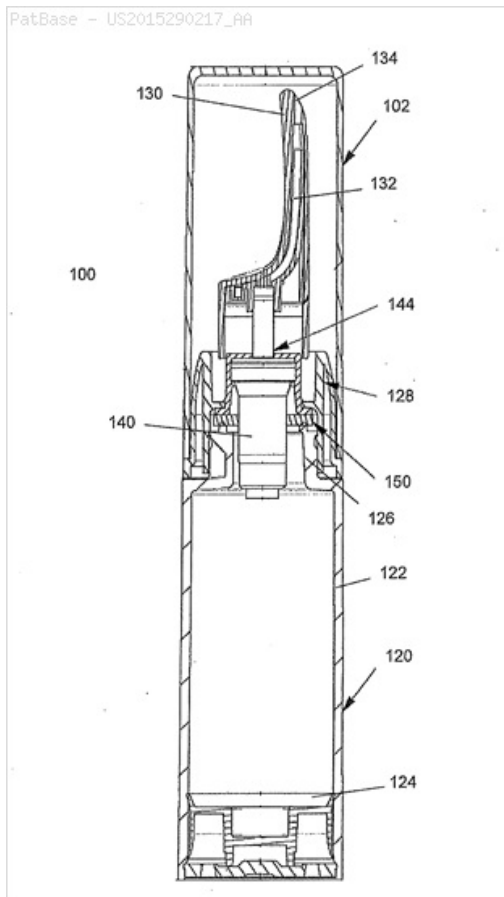
Abstract: The present invention relates to pernasal testosterone bio-adhesive gel formulations for intranasal administration and testosterone replacement treatment methods for using the pernasal testosterone bio-adhesive gel formulations for providing sustained intranasal delivery of testosterone to testosterone deficient males to treat, for example, male subjects diagnosed with hypogonadism. The present invention is also concerned with a novel titration method to determine the appropriate daily treatment regimen, i.e., a BID or TID treatment regimen, to administer the intranasal gels of the present invention to treat hypogonadism or TRT.

Classifications:

International (IPC 8-9): A61K31/568 A61K31/5685 A61K47/02 A61K47/14 A61K47/44 A61K9/00 A61K9/06 A61P15/00 A61P15/10 A61P15/12 A61P5/26 G01N33/74 G06F19/00 (Advanced/Invention)

CPC: A61K9/06 A61K47/44 A61K47/14 A61K47/02 G01N33/743 G06F19/3456 A61K31/568 A61K9/0043

US: 436/128 514/178 702/19

**Family:**

Publication number	Publication date	Application number	Application date
US2015290217 AA	20151015	US20130646571	20131121
WO14080282 A2	20140530	WO20131B02920	20131122
WO14080282 A3	20141106	WO20131B02920	20131122
WO14080283 A2	20140530	WO20131B02925	20131121
WO14080283 A3	20141113	WO20131B02925	20131121

Priority:

US20120729138P 20121121	US20120729406P 20121122	US20130802297P 20130315
US20130802354P 20130315	US20130802388P 20130316	US20130802724P 20130317
US20130802727P 20130317	US20130802739P 20130317	US20130802737P 20130317
US20130646571 20131121	WO20131B02925 20131121	

Probable Assignee: ACERUS PHARMACEUTICALS SRL**Assignee(s):** (std): TRIMEL BIOPHARMA SRL**Assignee(s):** ACERUS PHARMACEUTICALS SRL ; SWK FUNDING LLC**Inventor(s):** (std): DICKSTEIN JODI BETH ; KREPPNER WAYNE ; MAES PAUL JOSE PIERRE MARIE ; TKACHENKO NATALIA**Agent(s):** BUESING ARPITA G ET AL; MANSO PETER J ET AL

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 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

111) Family number: 49555842 (US2013079486A)

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Title: METHOD FOR PRODUCING 1,5-PENTAMETHYLENEDIAMINE, 1,5-PENTAMETHYLENEDIAMINE, 1,5-PENTAMETHYLENE DIISOCYANATE, METHOD FOR PRODUCING 1,5-PENTAMETHYLENE DIISOCYANATE, POLYISOCYANATE COMPOSITION, AND POLYURETHANE RESIN

Abstract: In a method for producing 1,5-pentamethylenediamine, a lysine decarboxylase-expressing microorganism that is subjected to a treatment is used.

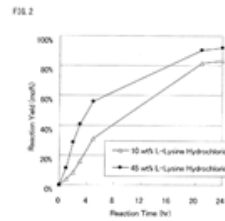
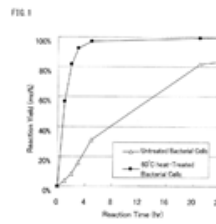
Classifications:

International (IPC 8-9): C07C C07C211/09 C07C263/00 C07C263/04 C07C263/10 C07C265/04 C07C265/10 C08G C08G18/02 C08G18/08 C08G18/18 C08G18/28 C08G18/32 C08G18/70 C08G18/73 C12N C12N1/00 C12N15/09 C12N9/88 C12P C12P13/00 (Advanced/Invention); C07C C08G C12N C12P (Subclass/Invention)

CPC: C12P13/001 C07C263/10 C08G18/022 C08G18/089 C08G18/1875 C08G18/283 C08G18/3206 C08G18/701 C08G18/73 C12N1/005 C12N9/88 Y02P20/52 C07C265/14

European: C07C263/10 C08G18/02D C08G18/70D C08G18/73 C12N9/88 C12P13/00C

US: 1/1 435/128 528/65 560/335 560/345 560/347 560/355 564/511

**Family:**

Publication number	Publication date	Application number	Application date
CN102782146 A	20121114	CN201180010677	20110225
CN102782146 B	20150708	CN201180010677	20110225
EP2543736 A1	20130109	EP20110750583	20110225
EP2543736 A4	20130717	EP20110750583	20110225
HK1174665 A1	20160115	HK20130101475	20130201
HK1174665 A1	20130614	HK20130101475	20130201
HK1174665 B	20160115	HK20130101475	20130201
JP2011108473 A1	20130627	JP20120503119T	20110225
JP5700575 B1	20150415	JP20120503119T	20110225
US2013079486 AA	20130328	US20110581554	20110225
US9404132 BB	20160802	US20110581554	20110225
WO11108473 A1	20110909	WO2011JP54388	20110225

Priority:

JP20100044644 20100301 JP20120503119 20110225 WO2011JP54388 20110225

Probable Assignee: MITSUI CHEMICALS INC**Assignee(s):** (std): HASEGAWA DAISUKE ; HIDESAKI TOMONORI ; KUWAMURA GORO ; MITSUI CHEMICALS INC ; NATSUJI AKIKO ; SATO KUNIAKI ; TAKEUCHI HIROSHI ; YAMASAKI SATOSHI ; NAKAGAWA TOSHIHIKO**Inventor(s):** (std): AKIKO NATSUJI ; DAISUKE HASEGAWA ; GORO KUWAMURA ; HASEGAWA DAISUKE ; HIDESAKI TOMONORI ; HIROSHI TAKEUCHI ; KUNIAKI SATO ; KUWAMURA GORO ; NAKAGAWA TOSHIHIKO ; NATSUJI AKIKO ; SATO KUNIAKI ; SATOSHI YAMASAKI ; TAKEUCHI HIROSHI ; TOMONORI HIDESAKI ; TOSHIHIKO NAKAGAWA ; YAMASAKI SATOSHI**Agent(s):** HOFFMANN EITL; KING AND WOOD MALLESONS; KING AND WOOD MALLESONS IP LTD; FOLEY AND LARDNER LLP; OKAMOTO HIROYUKI**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 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**112) Family number: 71783850 (US2018319500A)**

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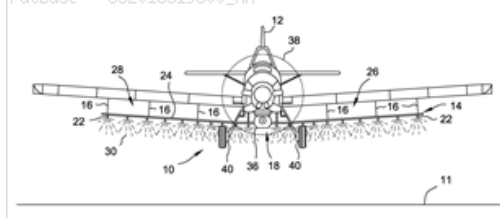
Title: SYSTEMS AND METHODS TO CONTROL AERIAL DISTRIBUTION OF MATERIALS

Abstract: Fluid dispersal systems and methods of controlling such systems are provided. A method for emitting a fluid from an aerial fluid dispersal system includes receiving data corresponding to an initial aerial distribution profile of fluid emitted by the aerial fluid dispersal system across a distribution width. The fluid is emitted through a plurality of individually controlled nozzle assemblies, and an emission rate of the fluid emitted from a respective nozzle assembly of the plurality of nozzle assemblies is based on an operating parameter of a valve assembly of the respective nozzle assembly. The method also includes determining an effect of the emission rate of each respective nozzle assembly on the initial aerial distribution profile of the fluid across the distribution width. The method also includes controlling the operating parameter of each respective valve assembly to adjust the emission rate of each respective nozzle assembly to generate a compensated distribution profile.

Classifications:

International (IPC 8-9): A01C23/04 A01M7/00 B05B1/00 B05B1/16 B05B1/20 B05B1/30 B05B12/02 B64D1/18 (Advanced/Invention)
CPC: B64D1/18 B05B1/16 B05B1/083 B05B1/20 B05B1/3053 B05B12/04 B05B13/005 B05B15/14

PatBase - US2018319500_AA



Family:

Publication number	Publication date	Application number	Application date
AU2018203090 AA	20181122	AU20180203090	20180503
CA3003815 AA	20181103	CA20183003815	20180503
US2018319500 AA	20181108	US20180968883	20180502

Priority:

US20170500868P 20170503 US20180968883 20180502

Probable Assignee: CAPSTAN SYSTEMS INC AG

Assignee(s): (std): CAPSTAN SYSTEMS INC AG

Assignee(s): GRIM JEFFREY JOHN ; HOLTZ ANDREW J ; MARX SAMUEL EVANS ; NEEDHAM DUANE ; SHEEHAN MEGHAN KRISTINE

Inventor(s): (std): GRIM JEFFREY JOHN ; GRIMM JEFFREY JOHN ; HOLTZ ANDREW J ; MARX SAMUEL EVANS ; NEEDHAM DUANE ; SHEEHAN MEGHAN KRISTINE

Agent(s): SPRUSON AND FERGUSON; GOWLING WLG CANADA LLP

113) Family number: 63468854 (US2016256902A)

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Title: APPARATUS TO CONTROL REACTION OF PEROXIDE AND ALKALINE

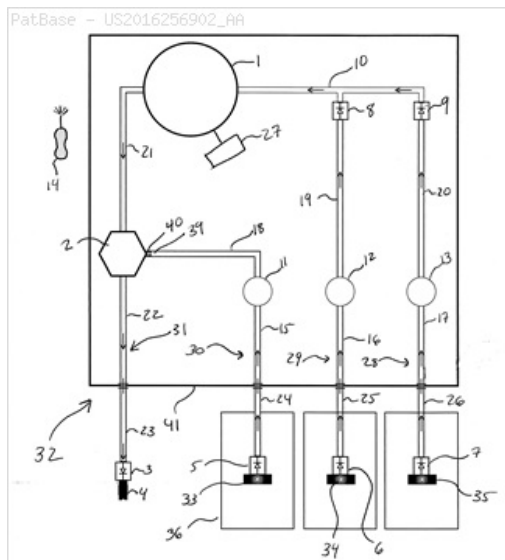
Abstract: The present invention relates to an apparatus designed to control the application of the previously uncontrollable reaction of a peroxide composition and an alkaline composition, and accurately maintain the desired composition ratios for removal of and destruction of microbiological and organic contamination on a surface safely and without waste of the materials. The apparatus may also be used to maintain the highest demulsifying and antimicrobial activity of an organic acid composition blended with a peroxide composition by limiting contact time and the level of degradation of the components of the organic acid composition. A method of using the apparatus is provided for removing biofilm, bacteria, fungal cells, spores, fragments, and hyphae, microbiological slime, and organic contaminants from porous and non-porous surfaces, maintaining the integrity and life expectancy of the substrates, and increasing their resistance to new biofilm formation and microbiological deposition.

Classifications:

International (IPC 8-9): A61L2/18 A61L2/22 A61L2/24 A61L2/28 B08B3/02 B08B3/08 B08B3/10 (Advanced/Invention)

CPC: B08B3/08 A61L2/24 B08B3/10 A61L2/22 A61L2202/25 A61L2/186 A61L2/28 B08B3/026 A61L2202/15 A61L2202/11

US: 134/34

**Family:**

Publication number	Publication date	Application number	Application date
US2016256902 AA	20160908	US20160059068	20160302
US2017246330 AA	20170831	US20160330947	20160302
WO16141115 A1	20160909	WO2016US20554	20160303

Priority:

US20150128336P 20150304 US20160059068 20160302 US20160330947 20160302

Probable Assignee: LYON WILLIAM M

Assignee(s): (std): LYON WILLIAM M

Inventor(s): (std): LYON WILLIAM M

Agent(s): HARRELL ELIZABETH D

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 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

114) Family number: 54123857 (US2014323656A)

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Title: FUNCTIONALIZED BLOCK COMPOSITE AND CRYSTALLINE BLOCK COMPOSITE COMPOSITIONS

Abstract: The invention provides functionalized block composites and crystalline block composites. In particular, the invention provides a functionalized olefin-based polymer formed from at least (A) and (B): (A) a crystalline block composite comprising: a block copolymer comprising a propylene-based crystalline block and crystalline ethylene-based block; a

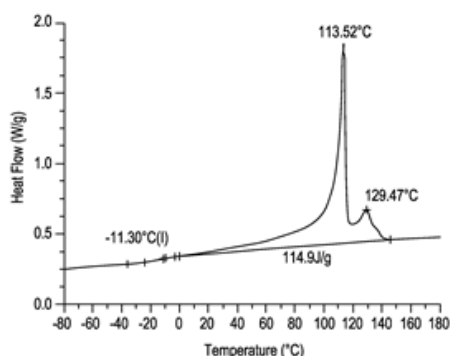
propylene-based crystalline polymer; and, a crystalline ethylene-based polymer; and (B) at least one functionalization agent or a functionalized olefin-based polymer formed from at least (A) and (B): (A) a crystalline block composite comprising: a block copolymer comprising a propylene-based crystalline block and crystalline ethylene-based block; a propylene-based crystalline polymer; and, a crystalline ethylene-based polymer; and (B) at least one functionalization agent.

Classifications:

International (IPC 8-9): C08F255/00 C08F287/00 C08K5/092
C08K5/14 C08K5/17 C08K5/54 C08L23/08 C08L23/12 C08L23/14
C08L51/00 C08L51/06 C08L53/00 (Advanced/Invention)
CPC: C08L51/003 C08L53/00 C08F287/00 C08L51/06
US: 525/88

PatBase - US2014323656_AA

FIG. 1



Family:

Publication number	Publication date	Application number	Application date
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BR112014014508 A8	20170613	BR20141114508	20121212
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EP2791243 A1	20141022	EP20120812447	20121212
EP2791243 B1	20161123	EP20120812447	20121212
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JP6346566 B2	20180620	JP20140547376T	20121212
KR20140107248 A	20140904	KR20147015856	20121212
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SG10201700173T A1	20170330	SG20171000173	20121212
SG11201402927S A1	20140730	SG20141102927	20121212
US2014323656 AA	20141030	US20120364482	20121212
US2017198078 AA	20170713	US20170451633	20170307
WO13090396 A1	20130620	WO2012US69194	20121212

Priority:

US20110570340P 20111214 EP20120812447 20121212 WO2012US69194 20121212
US20120364482 20121212 US20140364482 20140611 US20170451633 20170307

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): DOW GLOBAL TECHNOLOGIES INC ; DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): DOW GLOBAL TECHNOLOGIES LLC MIDLAND

Inventor(s): (std): GARY R MARCHAND ; H CRAIG SILVIS ; HU YUSHAN ; MICHAEL D READ ; READ MICHAEL D ; KIM L WALTON ; MARCHAND GARY R ; SILVIS H C ; SILVIS H CRAIG ; WALTON KIM L ; YUSHAN HU

Inventor(s): WALTON KIM L LAKE JACKSON ; SILVIS H CRAIG MIDLAND ; MARCHAND GARY R GONZALES ; READ MICHAEL D MIDLAND ; SILVIS H ; HU YUSHAN PEARLAND

Agent(s): JANSEN CORNELIS MARINUS; VO; KOBAYASHI HIROSHI; OHMORI NORIO; SPRUSON AND FERGUSON ASIA PTE LTD; CARNAHAN JENNIFER

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 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 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

115) Family number: 15640883 (US6274374B)

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Title: Combination stacker/incubator system for bioassay trays

Abstract: In a preferred embodiment, a combination stacker/incubator for microplates, including: a housing; an escapement mechanism disposed at a lower end of the housing to feed the microplates to and from the housing, such that the combination stacker/incubator serves as a stacker for more than one active microplate instrument; and heating apparatus disposed in the housing, such that the combination stacker/incubator serves as an incubator for the microplates.

Classifications:

International (IPC 8-9): B01L3/00 B01L9/00 C12M1/00
G01N35/00 (Advanced/Invention);
B01L3/02 G01N35/02 G01N35/04 (Advanced/Non-invention);
B01L3/00 B01L9/00 C12M1/00 G01N35/00 (Core/Invention);
B01L3/02 G01N35/02 G01N35/04 (Core/Non-invention)
International (IPC 1-7): B01L3/00 C12M1/00 C12M1/34 C12M1/38
C12M1/40 C12P19/34 C12Q1/68 G01N15/06
CPC: C12M23/48 C12M41/14 Y10T436/110833 G01N35/00009
B01L3/0265 B01L3/50853 B01L3/527 B01L7/52 B01L9/523
B01L2200/0684 B01L2200/0689 B01L2300/044 B01L2300/0812

B01L2300/0829 G01N2035/023 G01N2035/0436 Y10T436/11
Y10T436/2575

European: B01L3/00C2D4 B01L3/50853 B01L3/527 B01L9/00M2
B01L9/523 C12M23/48 C12M41/14 G01N35/00B L01L200/06M
L01L200/06N L01L3/02D8 L01L300/04A6 L01L300/08B12
L01L300/08B2 L01L7/52 S01N35/02B1 S01N35/04A6D

US: 422/100 422/102 422/103 422/131 422/500 422/505 422/552
422/63 422/65 422/66 422/68.1 422/681 422/81 422/99 435/283
435/285.1 435/287.1 435/287.2 435/287.3 435/288.3 435/288.4
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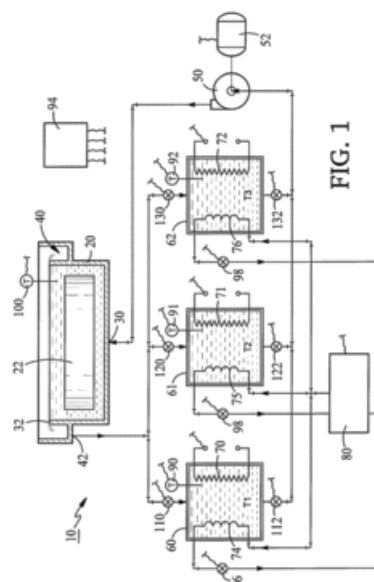
PatBase - US6274374_BA

U.S. Patent

Mar. 25, 2003

Sheet 1 of 2

US 6,537,752 B1



Family:

Publication number	Publication date	Application number	Application date
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US6537752 BA	20030325	US19990425070	19990322
US6632653 BA	20031014	US19990460107	19991213
US6878345 BA	20050412	US19980198018	19981123

Priority:

US19970067895P 19971208	US19980073329P 19980202	US19980095497P 19980806
US19980101104P 19980919	US19980198018 19981123	US19990425070 19990322
US19990398504 19990917	US19990460107 19991213	

Probable Assignee: DOUGLAS SCIENTIFIC LLC

Assignee(s): ASTLE THOMAS W ; DOUGLAS MACHINE INC ; DOUGLAS SCIENTIFIC LLC

Inventor(s): (std): ASTLE THOMAS W

Agent(s): JOHN H

116) Family number: 30774887 (US2005026981A)

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Title: STABLE ORAL SOLID DRUG COMPOSITION

Abstract: This invention is aimed to provide a stabilized formulation of ramosetron or a pharmaceutically acceptable salt thereof under a temperature/humidity condition, especially at a low content and relates to a stable oral solid drug composition of ramosetron or a pharmaceutically acceptable salt thereof, which is characterized by containing one or two or more members selected from the group consisting of an aliphatic carboxylic acid or an ester thereof, a hydroxycarboxylic acid or an ester thereof, an acidic amino acid, an enolic acid, an aromatic carboxyl compound or an ester thereof, and a carboxyl group-containing high-molecular substance, and to a stabilization method of the same. Also, this invention relates to a therapeutic agent of diarrhea-predominant irritable bowel syndrome containing from 0.002 to 0.02 mg of ramosetron hydrochloride as a daily dose or an equivalent molar amount of ramosetron or its pharmaceutically acceptable other salt as an active ingredient.

Classifications:

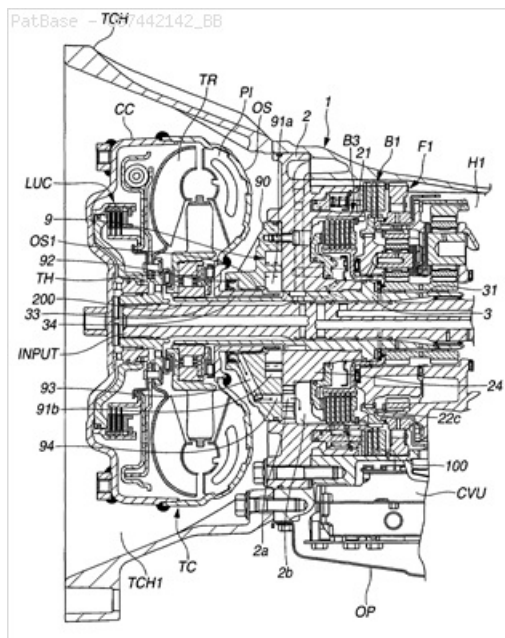
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A61K47/18 A61K47/22 A61K47/30 A61K47/32 A61K47/36
A61K47/38 A61K9/14 A61K9/20 A61P A61P1/00 A61P1/04 A61P1/08
A61P1/12 A61P25/00 A61P25/02 A61P25/06 A61P25/22 A61P43/00
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F16H57/023 F16H57/04 F16H57/08 (Advanced/Invention);
A61K31/4184 A61K9/14 A61K9/20 A61P1/00
C07D403/06 (Advanced/Non-invention);
A61K31/00 A61K31/18 A61K31/185 A61K31/403 A61K31/4164
A61K47/02 A61K47/12 A61K47/14 A61K47/16 A61K47/22
A61K47/30 A61K47/32 A61K47/36 A61K47/38 A61K9/14 A61K9/20
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C07D403/00 (Core/Invention);
A61K A61P C07D (Subclass/Invention);
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International (IPC 1-7): A61K31/00 A61K31/19 A61K31/404
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CPC: A61K31/19 A61K47/12 A61K47/14 A61K47/183 A61K47/32
C07D213/61 F16H3/66 F16H57/043 F16H57/0434 F16H57/0482
F16H61/0009 F16H61/0025 F16H63/3026 F16H2057/087
F16H2200/0056 F16H2200/2012 F16H2200/2051 F16H2200/2058

C07D403/06 A61K31/4184

European: A61K31/19 A61K31/4184 A61K47/12 A61K47/14
A61K47/18B A61K47/32 C07D213/61 F16H3/66 F16H57/04M7
F16H57/04P F16H57/04Z2 F16H61/00K1 F16H63/30H1
R16H200/00W7 R16H200/20P4 R16H200/20S11 R16H200/20S8
R16H57/08F R16H61/00D2

US: 424/464 424/465 475/159 475/331 475/331P 514/394 514/557
514/557S



Family:

Publication number	Publication date	Application number	Application date
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AU2005209112 AA	20050811	AU20050209112	20050127
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Priority:

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Probable Assignee: YAMAOUNCHI PHARMACEUTICAL CO LTD

Assignee(s): (std): ASTELLAS PHARMACY CO LTD ; ATSUTA YUTAKA ; JATCO LTD ; SUGIHARA AKIO ; MASAKI KATSUHIRO ; NISHIDA AKITO ; NIWA AKIRA ; YAMANOUCHI PHARMACEUTICAL CO LTD ; YAMANOUCHI PHARAMACEUTICAL CO LTD ; YAMANOUCHI PHARMA CO LTD ; ASTELLAS FARMA INK ; ASTELLAS PHARMA INC ; YASUJI TAKEHIKO

Assignee(s): NISSAN MOTOR CO LTD ; N A ; ASTELLAS PHARMACY CO ; YAMANOUCHI PHARMA CO ; YAMANOUCHI PHARMACEUTICAL CO ; YAMANOUCHI PHARAMACEUTICAL CO ; YAMAOUNCHI PHARMACEUTICAL CO LTD

Inventor(s): (std): AKIO SUGIHARA ; AKIRA NIWA ; AKITO NISHIDA ; ATSUTA JUTAKA ; ATSUTA Y ; ATSUTA YUTAKA ; JASUDZI TAKEKHICO ; KATSUHIRO MASAKI ; KITAHARA TETSURO ; KITAHARA TETSUROU ; MASAKI K ; MASAKI KATSUHIRO ; MASAKI KATSUKHIRO ; NISHIDA A ; NISHIDA AKITO ; NISIDA AKITO ; NIVA AKIRA ; NIWA A ; NIWA AKIRA ; SUGIHARA A ; SUGIHARA AKIO ; SUGIHARA AKIO MASAKI KATSUHIRO YASUJI TAKEHIKO NIS ; TAKEHIKO YASUJI ; TETSURO KITAHARA ; TSUCHIYA KOHEI ; TSUNEHIRA HIJIYA ; TSUNEHIRA KITAHARA TETSURO HIJ ; SUGIKHARA AKIO ; YASUJI T ; YASUJI TAKEHIKO ; YUTAKA ATSUTA ; YUTAKA NISHIDA AKITO NIWA AKIR ; YUTAKA SUGIHARA AKIO MASAKI KA

Inventor(s): YASUJI T C O ASTELLAS PHARMA INC ; T YASUJI ; Y ATSUTA ; SUGIHARA AKIO MASAKI KATSUHIRO YASUJI TAKEHIKO... ; SUGIHARA A C O ASTELLAS PHARMA INC ; NIWA AKIRA YAMANOUCHI PHARMACEUTICAL CO LTD ; NIWA AKIRAYAMANOUCHI PHARMACEUTICAL CO LTD ; NIWA A C O ASTELLAS PHARMA INC ; NISHIDA AKITO 2C O YAMANOUCHI PHARMACEUTICAL CO ; NISHIDA AKITO NIWA AKIRA ATSUTA YUTAKA ; NISHIDA AKITO YAMANOUCHI PHARMACEUTICAL CO LTD ; NISHIDA AKITOYAMANOUCHI PHARMACEUTICAL CO LTD ; NISHIDA A C O ASTELLAS PHARMA INC ; MASAKI K C O ASTELLAS PHARMA INC ; KITAHARA TETSURO HIJIYA TSUNEHIRA ; K MASAKI ; A NISHIDA ; A NIWA ; A SUGIHARA ; ATSUTA YUTAKA YAMANOUCHI PHARMACEUTICAL CO LTD ; ATSUTA YUTAKAYAMANOUCHI PHARMACEUTICAL CO LTD ; HIJIYA TSUNEHIRA ; ATSUTA Y C O ASTELLAS PHARMA INC

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; DENNISON ASSOCIATES; HOFFMANN EITL; SHANGHAI PATENT AND TRADEMARK OFFICE; REINHOLD COHN AND PARTNERS; MORITA HIROSHI; SUZUKI YORIKO; YANO EMIKO; EDWARDS AND ANGELL LLP; FOLEY AND LARDNER LLP, SUITE 500; FOLEY AND LARDNER LLP SUITE 500; EDWARDS ANGELL PALMER AND DODGE LLP; CORLESS PETER F; PETER F; FOLEY AND LARDNER LLP

Designated states: 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 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

117) Family number: 22868889 (US3460990A)

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Title: METHOD FOR CLEANING OBJECTS WITH SOLVENT

Abstract: ABSTRACT OF THE DISCLOSURE

A degreasing method in which the more volatile component of a solvent liquid mixture is selectively flash evaporated from the heat emitting section of a heat pump to generate vapor to rinse the objects washed in the solvent liquid mixture. A blanket of air vapor mixture is maintained at the top of a tank above a saturated vapor zone in turn above the solvent liquid. The air vapor blanket is maintained by continuously withdrawing some of it, condensing solvent vapor from it in the heat absorbing section of the heat pump and then returning the remaining air vapor mixture to the blanket. The condensed

solvent is utilized for rinsing. CROSS-REFERENCE TO RELATED APPLICATION This application is a division of copending application S.N. 403,142, filed Oct. 12, 1964 by this same inventor, now Patent No. 3,308,839 dated Mar. 14, 1967. B

Classifications:

International (IPC 8-9): B01D1/02 B01D1/16 B01D3/00 C23G5/04 (Advanced/Invention);

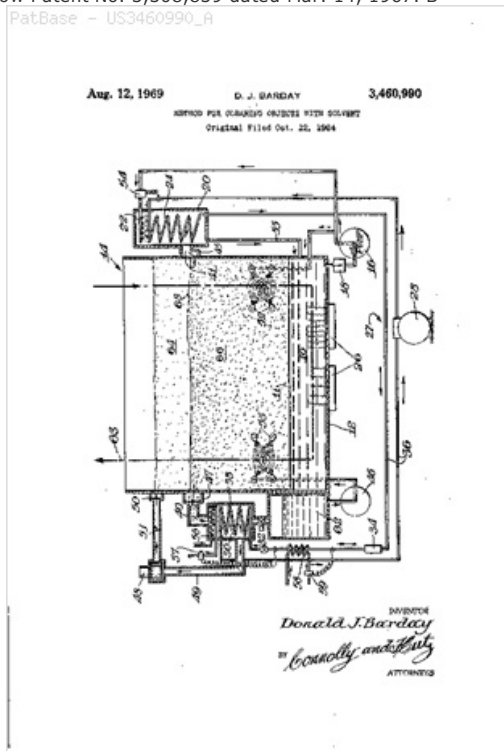
B01D1/00 B01D1/16 B01D3/00 C23G5/00 (Core/Invention)

International (IPC 1-7): B01D12/00 B08B3/04 B08B3/10 C23G5/02

CPC: B01D1/02 B01D1/16 C23G5/04 B01D3/007

European: B01D1/02 B01D1/16 B01D3/00D C23G5/04

US: 134/107 134/108 134/109 134/11 134/31 134/40 134/74 134/76 202/161 203/87



Family:

Publication number	Publication date	Application number	Application date
US3308839 A	19670314	US19640403142	19641012
US3460990 A	19690812	US19670621266	19670307

Priority:

US19640403142 19641012 US19670621266 19670307

Probable Assignee: DONALD J BARDAY

Assignee(s): (std): BARDAY DONALD J ; DONALD J BARDAY

Inventor(s): (std): BARDAY DONALD J

Inventor(s): DONALD J BARDAY

118) Family number: 32360902 (US2002069664A)

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Title: Method and apparatus for disinfecting a water cooler reservoir

Abstract: A method and apparatus for providing sanitized water in a bottled water dispenser uses a refrigeration system to cool the water and an ozone generating system to generate ozone for sanitizing the water. Ozone is generated and collected within an ozone generator housing. A blower transmits air to the housing, the air carrying the ozone through a flow line to an air diffuser that is positioned inside the reservoir of the water dispenser. A time deactivates the refrigeration system and at about the same time activates the ozone generator and the blower. The blower continues to pump air for a selected time period after the ozone generator is shut down, the water in the reservoir having been sanitized. This action dispenses any ozone odor. The pump then shuts off and the refrigeration system resumes operation of cooling the water in the reservoir.

Classifications:

International (IPC 8-9): A47J31/46 A61L2/20 B01D21/30 B01D35/00 B01J19/08 B67D B67D1/07 B67D1/08 B67D3/00 B67D5/06 B67D5/58 B67D5/62 B67D7/06 B67D7/62 B67D7/76 B67D7/80 C01B13/11 C02F C02F1/00 C02F1/50 C02F1/68 C02F1/72 C02F1/78 C02F9/00 C10J1/08 F25B49/00 F25D F25D11/00 F25D23/12 F25D3/00 F25D31/00 (Advanced/Invention);

A61L101/10 B67D1/00 B67D7/76 B67D7/80 C02F1/00 C02F1/68 F25D11/00 (Advanced/Non-invention);

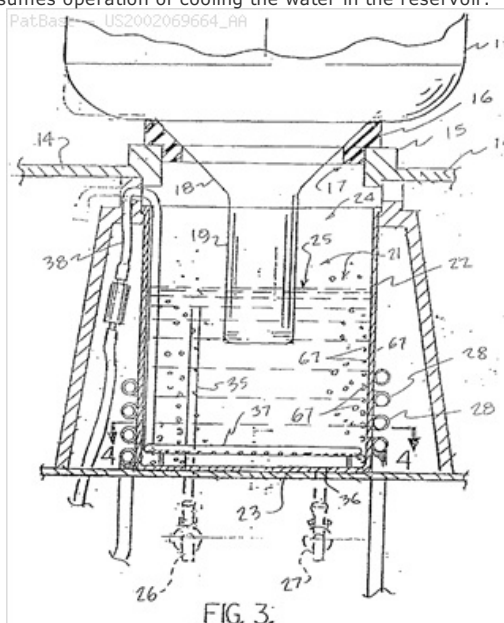
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B67D1/00 C02F1/00 C02F1/68 (Core/Non-invention); B67D C02F (Subclass/Invention)

International (IPC 1-7): A47J31/46 B67D1/07 B67D3/00 B67D5/06 B67D5/58

CPC: B67D3/0009 B67D3/0029 B67D2210/00013 C02F2209/005 C02F2201/782 C02F2201/784 C02F2307/10 B67D3/0077 C02F1/78 C02F2303/04 C02F2209/44 C02F2209/42 C02F2209/235 B67D2210/00023 B67D2210/00007 B67D2210/0001 F25D31/002 F25D23/12 F25D11/00 F25B49/00 C02F1/50 C02F1/008 C02F1/003 B67D3/0083 B67D3/0074 B67D3/0038 B67D3/0032 C02F2209/40 A61L2/202 Y10S261/42 C02F9/005 C02F1/685 C01B13/11 C01B13/10 B67D1/07 B01F2003/04361 B01F2003/04326 B01F2003/04191 B01F3/04269 B01F3/0412 B67D3/0035 B67D2210/0013

European: A61L2/20C B01F3/04C1B1 B01F3/04C1B2L B67D1/07 B67D3/00C B67D3/00H B67D3/00H2 B67D3/00H4 B67D3/00K C01B13/10 C01B13/11 C02F1/00T C02F1/78 C02F9/00B L01F3/04C1B1H2 L01F3/04C1B2T12 L01F3/04C1B2U2



L67D210/00B2B L67D210/00B4 L67D210/00B4H M02F1/00T M02F1/68P M02F1/78 M02F201/782 M02F201/784 M02F209/00T M02F209/40 M02F209/42 M02F209/44 M02F303/04
US: 1/1 210/104 210/138 210/139 210/140 210/141 210/150 210/192 210/205 210/220 210/760 210/86 210/97 222/1 222/146.1 222/146.100P 222/146.6 222/146.600P 222/146.600S 222/185.1 222/185.100P 222/189.06 222/189.060P 222/19 222/190 222/190P 222/190S 222/52 261/122.1 261/122.100P 261/DIG.42 422/186.14 422/186.140P 62/157 62/289 62/318 62/318P 62/389 62/389S 62/392 62/392P

Family:

Publication number	Publication date	Application number	Application date
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WO09046201 A2	20090409	WO2008US78601	20081002
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Priority:

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Probable Assignee: SIP TECHNOLOGIES LLC

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Assignee(s): S I P TECHNOLOGIES L L C A LOUISIANA US LIMITED LIABILITY COMPANY ; SIP TECHNOLOGIES LLC A LOUISIANA US LIABILITY COMPANY LTD ; BANKERS TRUST CO ; S I P TECHNOLOGIES L L C A LOUISIANA LIMITED LIABILITY COMPANY ; SIP TECHNOLOGIES LLC CENTREVILLE ; SIPTTECHNOLOGIES LLC ; SIP TECHNOLOGIES INC ; S I P TECHNOLOGIES L L C 111 NORTH CAUSEWAY BOULEVARD MANDEVILLE ; S I P TECHNOLOGIES L L C A LOUISIANA US ; S ; EHS AJ PI TEKNOLODZHIS EHLEHLSI ; JAMES J SHELTON ; ED LIABILITY COMPANY S I P TECHNOLOGIES L L C A LOUISIANA US LIMIT ; ED LIABILITY CO SIP TECHNOLOGIES LLC

Inventor(s): (std): DAVIS ; DAVIS KENNETH ; DAVIS KENNETH A A ; DEHVIS KENNET A ; SHELTON J J J ; SHELTON JAMES J ; DAVIS KENNETH A

Inventor(s): SHELTON JAMES ; J J SHELTON ; JAMES J SHELTON ; JJ SHELTON ; KENNETH A DAVIS

Agent(s): HERBERT SMITH FREEHILLS ; FREEHILLS PATENT AND TRADE MARK ATTORNEYS ; FREEHILLS PATENT ATTORNEYS ; FPA PATENT ATTORNEYS PTY LTD ; KIRBY EADES GALE BAKER ; OGILVY RENAULT LLP SENCRL SRL ; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL ; GOWLING LAFLEUR HENDERSON LLP ; WITTMANN HERNANDEZ PATENTANWAELE PARTNERSCHAFT MBB ; HARRISON GODDARD FOOTE ; VAUGHAN CHRISTOPHER TAMMO ; LAZCANO JESUS ; INSIGHT INTELLECTUAL PROPERTY ROOM 3410 34

F 118 CONNAUGHT ROAD LTD; INSIGHT INTELLECTUAL PROPERTY LTD; INSIGHT HK INTELLECTUAL PROPERTY LTD; DR MARK FRIEDMAN LTD; MARUYAMA TOSHIYUKI; HANDE MUMCUOGLU; GARVEY SMITH NEHRBASS AND DOODY LLC; GARVEY SMITH NEHRBASS AND NORTH LLC; CHARLES C; BRETT A; VANESSA M; GARVEY SMITH NEHRBASS AND NORTH L L C; GARVEY SMITH AND NEHRBASS PATENT ATTORNEYS LLC; NEHRBASS SETH M 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

119) Family number: 17201911 (ES1008475Y)

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Title: MAQUINA FRIGORIFICA O BOMBA DE CALOR (REVERSIBLE), ACCIONADA POR UNA BOMBA Y SIN COMPRESOR, APLICANDO EL EFECTO VENTURI.

Abstract: Source: ES1008475U [ES] MAQUINA FRIGORIFICA O BOMBA DE CALOR (REVERSIBLE), ACCIONADA POR UNA BOMBA Y SIN COMPRESOR, APLICANDO EL EFECTO VENTURI, CARACTERIZADA POR ESTAR FORMADA POR UN CIRCUITO CERRADO DE TUBERIA DE COBRE, QUE UNE UN DEPOSITO DE LIQUIDO REFRIGERANTE, CON UNA BOMBA DE PISTON DE ALTA PRESION (LA CUAL LLEVA UN PROTECTOR DE CAVITACION A LA ENTRADA Y UN AMORTIGUADOR DE PULSACIONES A LA SALIDA), CONECTADA A SU VEZ CON UNA TOBERA DE VENTURI Y DE NUEVO AL DEPOSITO. DE DICHO DEPOSITO SALEN ADEMAS DOS RAMIFICACIONES, UNA QUE ENLAZA CON EL CONDENSADOR Y RETORNO A EL Y OTRA QUE BAJO TUBO CAPILAR O CONDUCCION NORMAL CON VALVULA DE EXPANSION UNE DICHO DEPOSITO CON EL EVAPORADOR Y DESDE AQUI VA A LA TOBERA DE VENTURI.

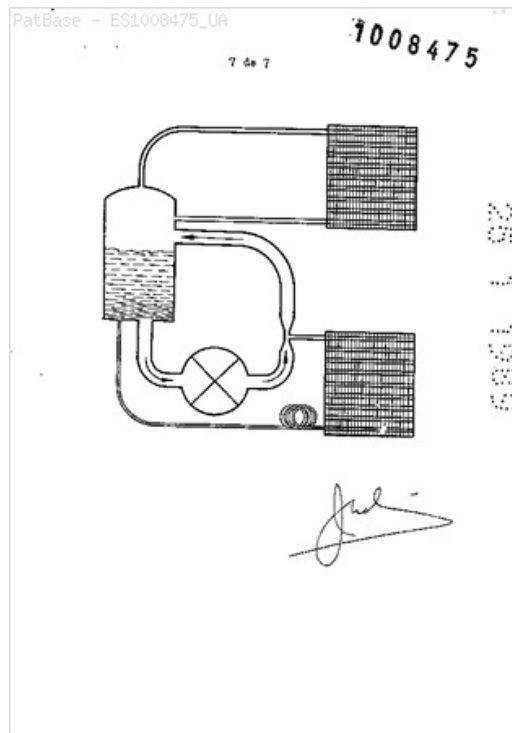
Machine translation: Refrigerating MACHINE OR HEAT PUMP (reversible), DRIVEN BY A PUMP AND COMPRESSOR, BY APPLYING THE VENTURI EFFECT, characterized by being FORMED BY A CLOSED CIRCUIT OF COPPER PIPE, WHICH CONNECTS A COOLANT LIQUID RESERVOIR, WITH A HIGH-PRESSURE PISTON PUMP (WHICH CARRIES A PROTECTOR OF CAVITATION AT THE INLET AND AT THE OUTLET PULSATION DAMPER), CONNECTED IN TURN WITH A VENTURI NOZZLE AND BACK TO THE RESERVOIR. Of said reservoir out two branches, ONE WHICH CONNECTS TO THE CONDENSER AND RETURN TO THE AND ANOTHER THAT UNDER NORMAL DRIVING WITH CAPILLARY TUBE OR EXPANSION VALVE CONNECTING SAID RESERVOIR WITH THE EVAPORATOR AND FROM HERE TO THE Venturi nozzle.

Classifications:

International (IPC 8-9): F25B15/00 (Advanced/Invention);

F25B15/00 (Core/Invention)

International (IPC 1-7): F25B15/00



Family:

Publication number	Publication date	Application number	Application date
ES1008475 UA	19890416	ES19880001866U	19880609
ES1008475 Y1	19900701	ES19880001866U	19880609
ES1008475 YA	19900701	ES19880001866U	19880609

Priority:

ES19880001866U 19880609

Probable Assignee:

CHANCLON SOLANO JOSE

Assignee(s): (std):

CHANCLON SOLANO JOSE

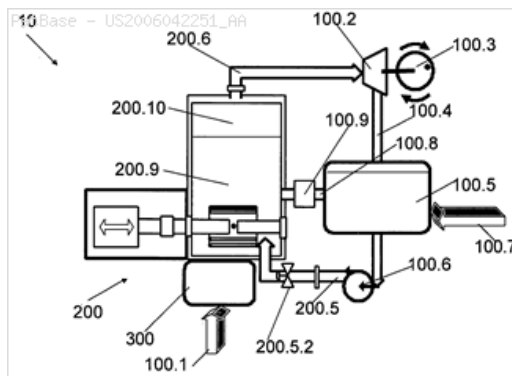
120) Family number: 32657932 (US2006042251A)

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Title: ARC-ELECTROLYSIS STEAM GENERATOR WITH ENERGY RECOVERY, AND METHOD THEREFOR

Abstract: An arc-electrolysis steam generator apparatus and method of use thereof, wherein the steam generator comprises an arc-plasma electrolysis process utilizing a high pressure vessel and electrodes exposed to high frequency, high energy pulses. An inductor is placed around an arc-electrolysis unit, wherein the inductor captures electromagnetic energy and a plasma effect that produces high electrical energy pulses generated by the plasma arc performing work against its own magnetic field; thereby, supplementing the steam energy recovered from water.

Classifications:
International (IPC 8-9): C25C1/02 F01K13/00 F01K23/06 H05F3/00 (Advanced/Invention);
 C25C1/00 F01K13/00 F01K23/06 H05F3/00 (Core/Invention)
CPC: F01K13/006 F01K21/00 F22B1/30 B01J19/02 B01J19/088 B01J2219/0209 B01J2219/0809 B01J2219/0839 B01J2219/0869 B01J2219/0871 B01J2219/0875 B01J2219/0877 B01J2219/0879 C01B3/042 C01B3/342 Y02E60/364 F22B3/00 C01B2203/0233 C01B2203/0861 C01B2203/84
European: B01J19/02 B01J19/08D2 C01B3/04B C01B3/34G F01K13/00C F01K21/00 F22B1/30 F22B3/00 L01J219/02B2 L01J219/08D2B2 L01J219/08D2B8B L01J219/08F L01J219/08H L01J219/08M2 L01J219/08M4 L01J219/08M6 M01B203/02B4B M01B203/08B10 M01B203/84 Y02E60/36D
US: 204/165 205/628 60/645 60/645S 60/670 60/670P



Publication number	Publication date	Application number	Application date
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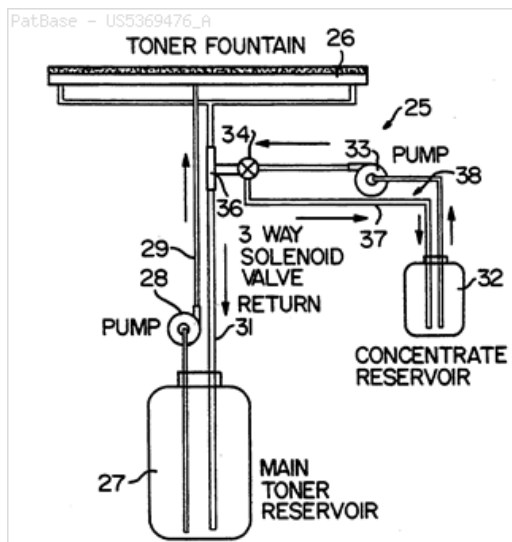
Agent(s): MYERS AND KAPLAN INTELLECTUAL PROPERTY LAW LLC; WILLIAMSON INTELLECTUAL PROPERTY LAW
LLC; THOMAS R

121) Family number: 8378938 (US5369476A)

Title: Toner control system and method for electrographic printing

Abstract: Toner control system and method for an electrographic printer in which toner is delivered from a reservoir to a toner fountain and there applied to an electrostatically charged sheet to form an image. The visual quality of the image is monitored, and toner concentrate is added to the toner in response to the monitored quality to increase the amount of pigment particles in the toner and thereby maintain a substantially constant image quality. The concentrate is added to the toner in a return line between the fountain and the reservoir in relatively small, predetermined amounts, and it is mixed before being added. In the disclosed embodiments, a test image is formed outside the main image on the sheet, and the brightness of one or more predetermined colors in the test image is monitored. This system and method are applicable both to monochrome images and to multicolor images.

International (IPC 8-9): G03G13/10 G03G15/00 G03G15/10
G03G15/11 G03G21/00 (Advanced/Invention);
G03G15/00 G03G15/11 (Advanced/Non-invention);
G03G15/00 G03G15/10 G03G15/11 (Core/Invention)
International (IPC 1-7): G03G13/10 G03G15/00 G03G15/06
G03G15/10 G03G15/11 G03G15/16 G03G21/00
CPC: G03G15/104 G03G15/105 G03G2215/00067
European: G03G15/10D G03G15/10D1 S03G2215/00C6D
US: 118/688 355/208 355/256 399/49 399/57 399/72 430/117
430/118.3



Publication number	Publication date	Application number	Application date
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AU661539 B2	19950727	AU19930031991	19930125
CA2088118 AA	19930729	CA19932088118	19930126
CA2088118 C	20020910	CA19932088118	19930126
DE4302381 A1	19930812	DE19934302381	19930128
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FR2686712 B1	19960405	FR19930000652	19930122
GB2263790 A1	19930804	GB19930001687	19930128
GB2263790 B2	19951213	GB19930001687	19930128

GB9301687 A0	19930317	GB19930001687	19930128
JP3260882 B2	20020225	JP19930011574	19930127
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US5369476 A	19941129	US19920826600	19920128

Priority:

US19920826600 19920128 CA19932088118 19930126

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Assignee(s): CACTUS A CORP ; MINNESOTA MINING AND MFG ; CACTUS CHINO CALIF US ; CLARK L DOUGLAS ; MINNESOTA MINING AND MFG CO ; 3M CO ; BOWERS HARRY

Inventor(s): (std): CLARK DOUGLAS L ; CLARK L DOUGLAS ; DOUGLAS CLARK L ; BOWERS HARRY ; HARRY BOWERS

Inventor(s): L DOUGLAS CLARK ; BOWERS HARRY NEW YORK US ; DOUGLAS L CLARK ; CLARK L DOUGLAS SAN FRANCISCO CALIF ; CLARK L DOUGLAS SAN FRANCISCO CALIF US

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR

122) Family number: 72481949 (US2018363955A)

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Title: ADSORPTION/DESORPTION HEATING, COOLING, AND ENERGY STORAGE PROCESS AND APPARATUS

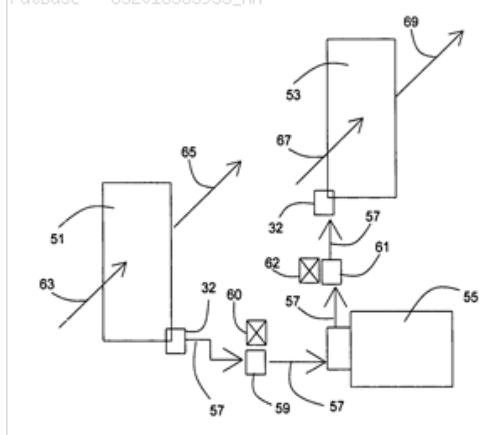
Abstract: The invention described herein enables a variety of heating, cooling, energy transformation, and energy storage options with a small number of components. Described are Pressure Swing Adsorption and Pressure Swing Desorption cycles, processes, and apparatuses including multiple sorption beds and active energy input by a pump and energy storage as pressure differentials. A preferred embodiment includes two activated carbon sorption beds, water vapor as the adsorbate, control valves, and a compressor or vacuum pump. In operation these components provide a range of heating, cooling, and energy storage options. Operational cycles are described.

Classifications:

International (IPC 8-9): F25B17/08 F25B49/04 (Advanced/Invention)

CPC: F25B17/08 F25B2315/006 F25B2600/2525 F25B49/046
F25B17/083 F25B35/04

PatBase - US2018363955_AA



Family:

Publication number	Publication date	Application number	Application date
US2018363955 AA	20181220	US20170731486	20170619

Priority:

US20170731486 20170619

Probable Assignee: ALDEN RAY M

Assignee(s): (std): ALDEN RAY M ; EBNER ARMIN D ; RITTER JAMES A

Inventor(s): (std): ALDEN RAY M ; EBNER ARMIN D ; RITTER JAMES A

123) Family number: 34894957 (DE102006003117A1)

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Title: ENERGY TRANSFERRING DEVICE FOR USE IN E.G. MINI ENVIRONMENT BOX, HAS INNER CARRIAGE AND ROTORS CONVERTED INTO MOVEMENT HAVING MORE THAN DEGREE OF FREEDOM OR INTO TWO MOVEMENTS HAVING JUST ONE DEGREE OF FREEDOM

Abstract: The device has drives (7, 9, 15) and drive units (8, 10, 16) in a drive region, and outer and inner magnetic carriages (11, 21) and outer and inner magnetic rotors (17, 27) in the drive region and an operating region (1). Energy from one of the drives and the drive units is transmitted to the inner carriage and rotors in the operating region through a temporally or spatially varied field force by the outer carriage and rotors in the drive region. The inner carriage and rotors are converted into a movement having more than a degree of freedom or into two movements having one degree of freedom. An independent claim is also included for a method for transferring energy between a drive region and a spatial operating region.

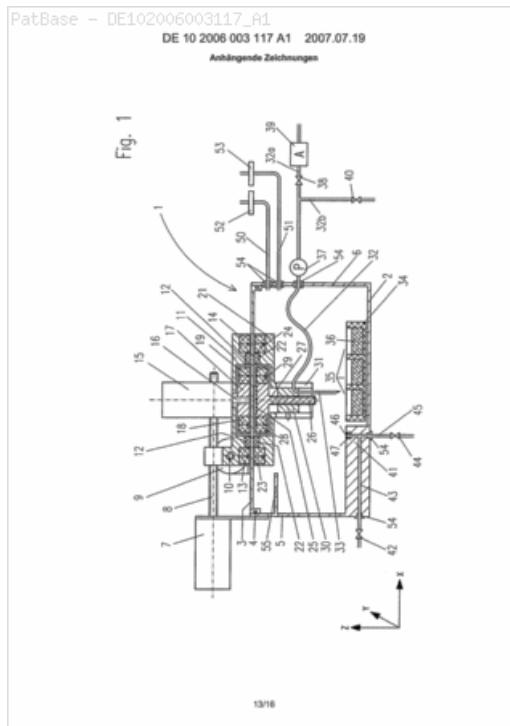
Classifications:

International (IPC 8-9): H02K49/06 H02K49/10 (Advanced/Invention);

H02K49/00 (Core/Invention)

CPC: B01L1/00 H02K49/108

European: H02K49/10C2 L01L1/00

**Family:**

Publication number	Publication date	Application number	Application date
DE102006003117 A1	20070719	DE200610003117	20060118

Priority:

DE200610003117 20060118

Probable Assignee: INST BIOPROZESS ANALYSENMESST**Assignee(s):** (std): INST BIOPROZESS ANALYSENMESST**Assignee(s):** INSTITUT FUER BIOPROZES UND ANALYSENMESTECHNIK E V ; F BIOPROZES U ANALYSENMESTECHNIK EV INST**Inventor(s):** (std): STEINER CHRISTIAN ; GRODRAN ANDREAS ; GASTROCK GUNTER**124) Family number: 10392959 (DE4126088C1)**

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Title: Peristaltic pump hose with inlet and outlet sections, and pumping middle one - has stationary, coaxial plug inside deformable part away from its wall

Abstract: The peristaltic pump hose comprises inlet and outlet sections, and a middle one as the pumping segment. A coaxial plug (31), remote from the wall is arranged in the outlet section (13) coaxially and entered by an inlet (34) at axial spacing from the closed plug end (32) facing the centre part of the hose (11). The plug works with a flexible radial lip (30) inside the hose outlet section (13) such that the lip presses against the plug head exterior at a given min. pump hose force. The outlet hose section part (14) can be radially deformed by hand to purposely open the plug inlet. USE/AVANTAGE - For medical applications, sterile infusion liq. transport etc. with improved reliability preventing uncontrolled flow, and extra manual control.

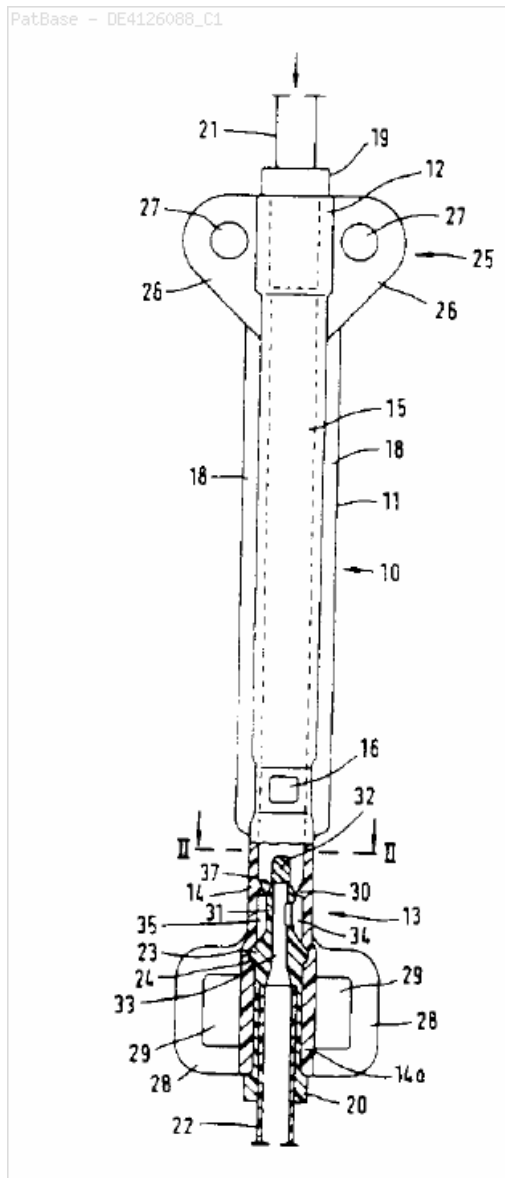
Classifications:**International (IPC 8-9):** A61M39/24 A61M5/142

F04B43/00 (Advanced/Invention);

A61M39/22 A61M39/28 (Advanced/Non-invention);

A61M39/00 A61M5/142 F04B43/00 (Core/Invention)

International (IPC 1-7): A61M5/142 F04B43/12**CPC:** A61M5/142 A61M5/14232 A61M39/221 A61M39/24 A61M39/281 F04B43/0072**European:** A61M39/24 A61M5/142 F04B43/00D8T K61M39/22C K61M39/28A K61M5/142G8

**Family:**

Publication number	Publication date	Application number	Application date
DE4126088 C1	19930114	DE19914126088	19910807

Priority:

DE19914126088 19910807

Probable Assignee: B BRAUN MELSUNGEN AG 3508 MELSUNGEN DE**Assignee(s):** B BRAUN MELSUNGEN AG 3508 MELSUNGEN DE**Inventor(s):** KNUTH REINHARD 3508 MELSUNGEN DE**125) Family number: 52578989** (US2014153974A)

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Title: DEVELOPER SUPPLY CONTAINER AND DEVELOPER SUPPLYING SYSTEM

Abstract: An object of the present invention is to provide a developer supply container capable of simplifying a mechanism for displacing a developer receiving portion to connect it with a developer supply container. A developer supply container 1 for supplying a developer through a developer receiving portion 11 displaceably provided in a developer receiving apparatus 8 to which said developer supply container 1 is detachably mountable, said developer supply container 1 includes a developer accommodating portion 2c for accommodating a developer; and an engaging portions 3b2, 3b4, engageable with said developer receiving portion 11, for displacing said developer receiving portion 11 toward said developer supply container 1 with a mounting operation of said developer supply container 1 to establish a connected state between said developer supply container 1 and said developer receiving portion 11.

Classifications:**International (IPC 8-9):** B65D83/06 G03B27/52 G03G G03G15/00

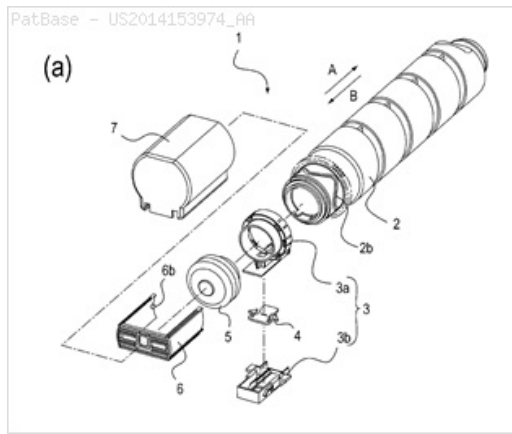
G03G15/08 G03G21/16 G03G21/18 (Advanced/Invention);

G03G (Subclass/Invention)

CPC: G03G21/1676 G03G15/0879 G03G15/0886 G03G15/0865

G03G2221/1648

US: 399/262

**Family:**

Publication number	Publication date	Application number	Application date
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CN103733141 A	20140416	CN201280036697	20120606
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US2018101128 AA	20180412	US20170835947	20171208
US2018101129 AA	20180412	US20170835986	20171208
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Priority:

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WO2012JP65062	20120606	RU20170129879	20126006	US20130088760	20131125
US20130088760	20131125	US20130088760	20131125	US20130088760	20131125

HK20140106717	20140323	AU20150292693	20150518	JP20170006548	20170118
AU20170201268	20170224	US20170835856	20171208	US20170835947	20171208
US20170835986	20171208	US20170836182	20171208	US20170836212	20171208
AU20180271333	20181129				

Probable Assignee: CANON INC

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Assignee(s): CANON KABUSHIKI KAISHA ; KENON KABUSIKI KAJSYA

Inventor(s): (std): DZIMBA MANABU ; JIMBA MANABU ; KANBA MANABU ; IMBA MANABU ; MURAKAMI KATSUYA ; OKINO AYATOMO ; NAGASHIMA TOSHIAKI ; OKINO NORITOMO ; MURAKAMI TAKEYA ; NAGASIMA TOSIAKI ; TAZAWA FUMIO ; TAZAWA BUNRO ; TAZAVA FUMIO

Inventor(s): AYATOMO OKINO ; TOSHIAKI NAGASHIMA ; KATSUYA MURAKAMI ; MANABU JIMBA ; FUMIO TAZAWA

Agent(s): SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP; TBK; DEACONS; YURIDICHESKAYA GORODISSKIJ I PARTNER Y OOO FA; VENABLE LLP; YAMADA RYUICHI

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 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 QA RO RS RU RW 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