

15-085793

2do examen de fondo.

Search history

Search 1: PN=(JP62159728 OR US20100090356 OR WO199718423 OR US8887523 OR US4454727 OR US6138470 OR US2013318790) (Results 8)

Title: DEHUMIDIFICATION AIR-CONDITIONING METHOD WITH SOLAR HEAT

Abstract: Source: US4454727A PCT No. PCT/JP79/00279 Sec. 371 Date Jun. 30, 1981 Sec. 102(e) Date May 28, 1981 PCT Filed Oct. 30, 1979 PCT Pub. No. WO81/01326 PCT Pub. Date May 14, 1981. A concentrated solution to be utilized for dehumidification is housed in a concentrated solution tank and is supplied to a dehumidification room to dehumidify the air. The resulting dilute solution is collected in a dilute solution tank and is condensed into a concentrated solution by a vacuum vaporation process. The resulting concentrated solution is returned to the concentrated solution tank. In the vacuum vaporation process, the dilute solution housed in the dilute solution tank is converted into a heated dilute solution through a heat exchanger. The heated solution is heated by solar energy in a low temperature vaporizer and a high temperature vaporizer in which the pressure is reduced by a source of vacuum. The heated dilute solution is returned to the concentrated tank through a heat exchanger.

Classifications:

International (IPC 8-9): B01D3/10 F24D11/00 F24F3/14 F24F5/00

F26B17/20 F26B3/28 (Advanced/Invention);

B01D3/10 F24D11/00 F24F3/12 F24F5/00 F26B17/00

F26B3/00 (Core/Invention)

International (IPC 1-7): F24F3/14 F24J3/02 F25B27/00

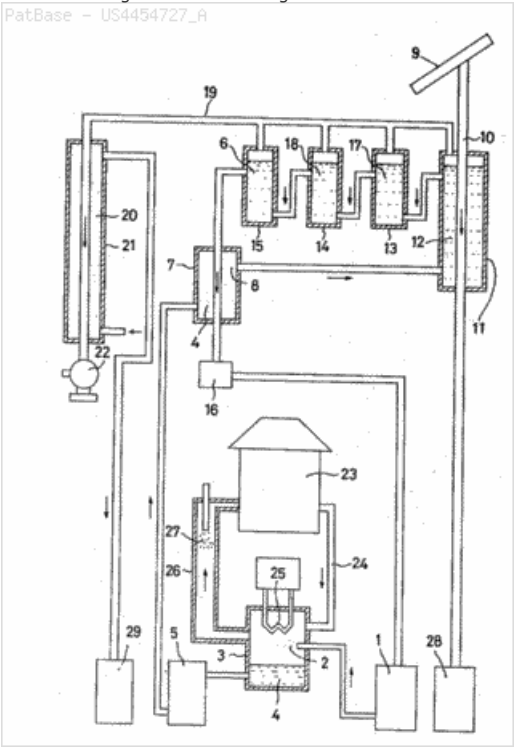
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F24F5/0046 F24F2003/144

European: B01D3/10 F24D11/00D2 F24F3/14 F24F3/14C1 F24F5/00F

F26B17/20 F26B3/28 R24F3/14E Y02B10/22

US: 62/235.1 62/476



Family:

Publication number	Publication date	Application number	Application date
US4454727 A	19840619	US19810269055	19810630
WO8101326 A1	19810514	WO1979JP00279	19791030

Priority:

US19810269055 19810630 WO1979JP00279 19791030

Probable Assignee: SUZUKI SOOHEI

Assignee(s): (std): SUZUKI S ; SUZUKI SOOHEI

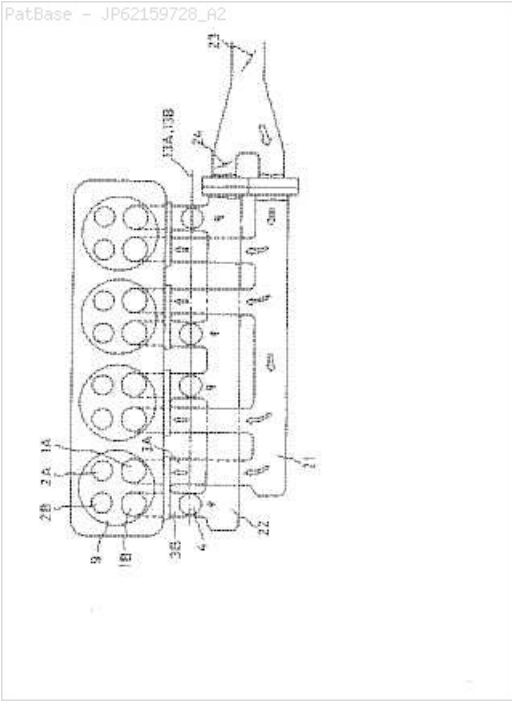
Inventor(s): (std): SUZUKI SOOHEI ; SUZUKI S

Designated states: BR CH DE FR GB JP LU SE SU US

Title: INTAKE DEVICE FOR MULTI-CYLINDER INTERNAL COMBUSTION ENGINE

Abstract: Source: JP62159728A **PURPOSE:**To prevent dispersion in the suction gas charging efficiency of each cylinder in an engine having two suction ports per cylinder by providing a control valve controlled according to the operating condition of the engine on the collecting part of suction passages communicating with the second suction port of each cylinder.
CONSTITUTION:Each cylinder of an engine is provided with two suction ports 3A, 3B closed or opened by suction valve 1A, 1B respectively. The first suction port 3A diverges from the downstream end of the first collector passage 21, and the second suction port 3B provided with a closing valve 4 diverges from the second collector passage 22. The upper stream ends of the first and the second collector passage 21, 22 are collected at the downstream side of a suction throttle valve 23, and a collecting end on the upper stream side of the second collector passage 22 is equipped with a control valve 24 to variably control the effective sectional area of a pass of the said passage 22. The control valve 24 is controlled so as to fully close in the range of speed slower than the fixed number of revolution, and to open wider with an increase in the number of engine revolution in the operating range of speed faster than the fixed number of revolution.

Classifications:
International (IPC 8-9): F02B31/00 F02B31/02 (Advanced/Invention);
F02B31/00 (Core/Invention)
International (IPC 1-7): F02B31/00 F02B31/02



Family:

Publication number	Publication date	Application number	Application date
JP1987183 C3	19951108	JP19860000198	19860107
JP62159728 A2	19870715	JP19860000198	19860107
JP7006396 B4	19950130	JP19860000198	19860107

Priority:

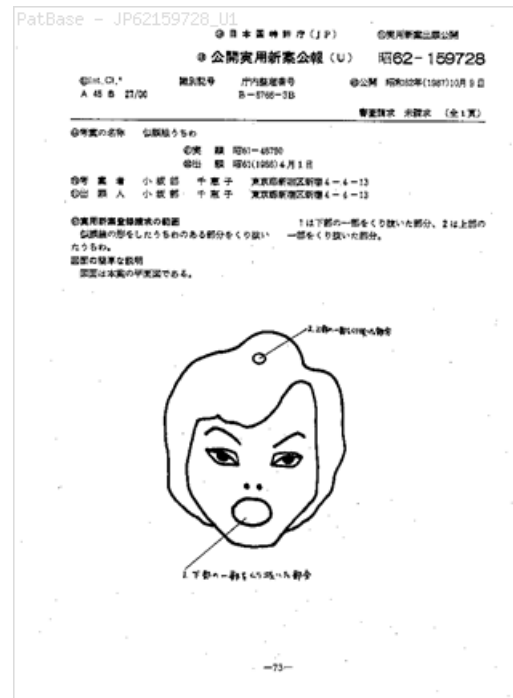
JP19860000198 19860107

Probable Assignee: NISSAN MOTOR
Assignee(s): (std): NISSAN MOTOR
Assignee(s): NISSAN MOTOR CO LTD
Inventor(s): (std): FUJII TAKASHI ; AOYAMA SHUNICHI

Classifications:

International (IPC 8-9): A45B27/00 (Advanced/Invention);
A45B27/00 (Core/Invention)

International (IPC 1-7): A45B27/00



Family:

Publication number	Publication date	Application number	Application date
JP62159728 U1	19871009	JP19860048780U	19860401

Priority:

JP19860048780U 19860401

Title: POLYMER DESICCANT AND SYSTEM FOR DEHUMIDIFIED AIR CONDITIONING

Abstract: Source: US5191771A A liquid polymer-salt solution as a desiccant in an air conditioning system comprised of a heat-pipe having its heat absorber section in an outside air inlet duct following water vapor adsorption into the desiccant by a contactor section of a dehumidifier, and the heat-pipe having its heat rejecter section in an exhaust air duct and preferably preceeding water vapor discharge from the desiccant by a regenerator section of the dehumidifier.

Classifications:

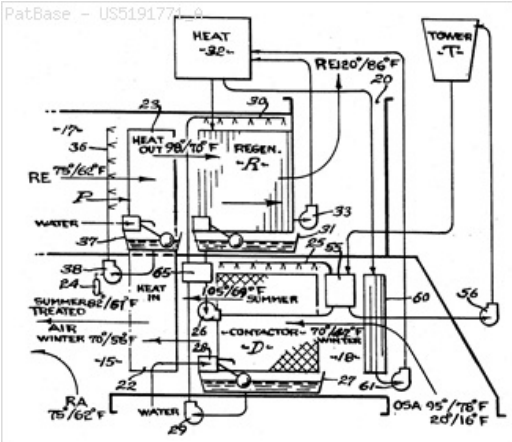
International (IPC 8-9): B01D53/26 B01D53/28 F24F3/14 F24F3/16 F24F7/00 F25D23/00 (Advanced/Invention); B01D53/26 B01D53/28 F24F3/12 F24F7/00 F25D23/00 (Core/Invention)

International (IPC 1-7): F24F7/00 F25D23/00

CPC: B01D53/261 B01D53/28 F24F3/1411 F24F3/1417 F24F3/1603 F24F2003/144 F24F2203/1036 F24F3/1423 F24F2203/102 F24F2203/1028 F24F2203/1064 F24F2203/1068 F24F2203/1084 Y02P80/152

European: B01D53/26B B01D53/28 F24F3/14C F24F3/14C1 F24F3/14C2 F24F3/16B R24F203/10E R24F203/10G R24F203/10H2 R24F203/10N4 R24F203/10P R24F203/10T R24F3/14E

US: 165/8 62/271 62/94



Family:

Publication number	Publication date	Application number	Application date
AU199529484 A1	19970122	AU19950029484	19950623
AU199641621 A1	19970605	AU19960041621	19951113
US5191771 A	19930309	US19910726040	19910705
US5297398 A	19940329	US19930016152	19930205
US5426953 A	19950627	US19930101632	19930804
US5471852 A	19951205	US19940215225	19940322
WO9701066 A1	19970109	WO1995US07986	19950623
WO9718423 A1	19970522	WO1995US14908	19951113

Priority:

US19910726040 19910705 US19930016152 19930205 US19930101632 19930804
US19940215225 19940322 WO1995US07986 19950623 WO1995US14908 19951113

Probable Assignee: DESIGN BUILD SYSTEMS

Assignee(s): (std): MECKLER MILTON ; MILTON MECKLER

Assignee(s): DESIGN BUILD SYSTEMS ; MECKLER TECHNOLOGIES LLC

Inventor(s): (std): MECKLER MILTON

Inventor(s): MILTON MECKLER

Designated states: AL AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ 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 SN SZ TD TG TJ TM TT UA UG UZ VN

Title: Liquid desiccant air conditioner

Abstract: Source: US2001013226A The present invention provides a liquid desiccant air conditioner including an absorption air conditioner and a liquid desiccant dehumidifier. The dehumidifier includes a liquid desiccant absorber for absorbing moisture contained in ambient air entering the dehumidifier and passing through the desiccant absorber. A boiler is provided for boiling partially preheated dilute liquid desiccant to evaporate moisture to reconstitute the liquid desiccant into concentrated liquid desiccant. In a preferred embodiment, a first heat exchanger fluidly communicates with the desiccant absorber and a second heat exchanger. The first heat exchanger is operable to transfer heat from the concentrated liquid desiccant to the dilute liquid desiccant directed to the first heat exchanger from the desiccant absorber to raise the temperature of the dilute liquid desiccant to a first temperature. A condenser fluidly communicates with the boiler to receive steam generated by boiling the liquid desiccant in the boiler, and with the first heat exchanger to receive partially heated dilute liquid desiccant from the first heat exchanger at the first temperature. The condenser is operable to sensibly heat the dilute liquid desiccant therein to a second temperature by recovering the latent heat of condensation as steam delivered from the boiler is condensed. The second heat exchanger fluidly communicates with the condenser, the boiler and the first heat exchanger. The second heat exchanger is operable to transfer heat from concentrated liquid desiccant directed to the second heat exchanger from the boiler to the dilute liquid desiccant directed to the second heat exchanger from the condenser at the second temperature to raise the temperature of the dilute liquid desiccant to a third temperature. The dilute liquid desiccant at the third temperature is directed to the boiler and the concentrated liquid desiccant from the second heat exchanger is directed to the first heat exchanger. The second heat exchanger is disposed with respect to the boiler to recover waste heat from the boiler. A pump is provided for pumping concentrated liquid desiccant into the absorber. A fraction of the steam from the boiler is used to regenerate the refrigerant in the absorption air conditioner.

Classifications:

International (IPC 8-9): B01D53/26 F24F3/12 F24F3/14 F24F5/00

F25B15/06 F25B27/02 F25D17/06 F28B1/02 F28D7/10

F28F1/08 (Advanced/Invention);

F25B15/06 F25B27/02 F25D17/06 (Advanced/Non-invention)

International (IPC 1-7): A23C3/02 B01D53/26 E21B27/00 F24F3/12

F24F3/14 F25B17/00 F25B25/00 F25B27/00 F25B27/02 F25B33/00 F25D/A

F25D17/06 F25D23/00 F28F21/06 G21B43/00

CPC: F24F3/1411 Y10S165/909 F24F3/1417 B01D53/263 F24F5/0014

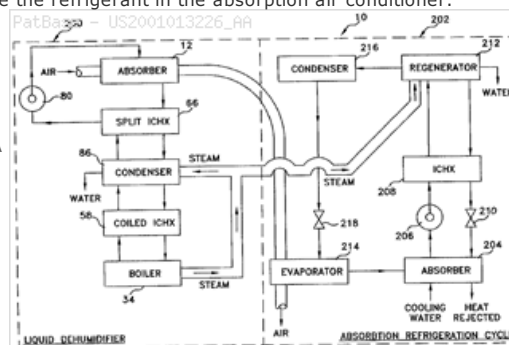
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US: 165/154 165/158 165/163 165/66 165/909 62/238.3 62/238.300S

62/271 62/271P 62/332 62/332S 62/497 62/497P 62/94 62/94S



Family:

Publication number	Publication date	Application number	Application date
AU199917992 A1	19990712	AU19990017992	19981125
AU200061204 A1	20010703	AU20000061204	20000608
AU200061204 A5	20010703	AU20000061204D	20000608
BRPI9815164 A	20001219	BR1998P115164	19981125
CA2312116 AA	20000529	CA19982312116	19981125
CN1285032 A	20010221	CN19988012934	19981125
EP1046014 A2	20001025	EP19980962839	19981125
EP1046014 A4	20020227	EP19980962839	19981125
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KR20010032785 A	20010425	KR20007006089	19981125
PL341651 A1	20010423	PL19980341651	19981125
RU2000114164 A	20020727	RU20000114164	19981125
TH46307 A	20010717	TH20001002055	20000608
TR200001598 T2	20001121	TR20000001598T	19981125
TW555951 B	20031001	TW19980120101	19990226
US2001013226 AA	20010816	US20010819530	20010328
US2001015077 AA	20010823	US20010824127	20010402
US6134903 A	20001024	US19980130122	19980806
US6138470 A	20001031	US19970984741	19971204
US6216483 BA	20010417	US19980131287	19980807
US6216489 BA	20010417	US19990330399	19990609
WO0146628 A1	20010628	WO2000US40162	20000608
WO9932841 A2	19990701	WO1998US25189	19981125
WO9932841 A3	20000302	WO1998US25189	19981125
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Priority:

US19970984741 19971204	US19980130122 19980806	US19980131287 19980807
US20010824127 20010402	US20010819530 20010328	WO2000US40162 20000608
US19990330399 19990609	WO1998US25189 19981125	

Probable Assignee: FEDDERS CORP

Assignee(s): (std): BAUMANN ROBERT ; FEDDERS CORP ; GURLEY KEVIN ; LAURENT ROBERT L JR ; MCKITTRICK PHILLIP T SR ; RAO SRIKANT RAM ; POTNIS SHAILESH V

Assignee(s): MCKITTRICK PHILLIP T ; LAURENT ROBERT L ; BRANDT GREGORY W

Inventor(s): (std): GURLEY KEVIN ; KEVIN GURLEY ; LAURENT JR ROBERT L ; LAURENT ROBERT L ; LAURENT ROBERT L JR ; LAURENT ROBERT LJR ; MCKITTRICK PHILLIP T ; MCKITTRICK PHILLIP T SR ; MCKITTRICK PHILLIP TSR ; POTNIS SHAILESH V ; RAO SRIKANT RAM ; RAO SRIKANT RAM AND ; ROBERT BAUMANN ; BAUMANN

ROBERT ; BAUMANN ROBERT E ; BRANDT GREGORY W ; MCKITTRICK SR PHILLIP T

Inventor(s): GREGORY W BRANDT ; ROBERT E BAUMANN ; ROBERT L JR LAURENT ; ROBERT L LAURENT JR ; SHAILESH V
POTNIS ; SRIKANT RAM RAO ; PHILLIP T MCKITTRICK ; PHILLIP T MCKITTRICK SR ; PHILLIP T SR
MCKITTRICK

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT
ATTORNEYS PTY LTD; MACRAE AND CO

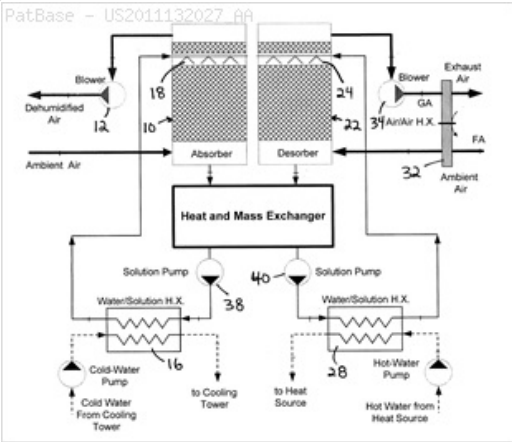
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Title: LIQUID DESICCANT DEHUMIDIFICATION SYSTEM AND HEAT /MASS EXCHANGER THEREFOR

Abstract: Source: US2011132027A A heat and mass exchanger for a liquid desiccant air conditioning/dehumidification system. The exchanger comprises an absorber solution section operably connected to the system's absorber/dehumidification section and a desorber solution section operably connected to the system's desorber/regeneration section. A partition separating those sections includes at least two interconnecting ports positioned to facilitate flow of relatively weak solution from the absorber solution section into the desorber solution section; and the flow of relatively strong solution from the desorber solution section into the absorber solution section-as well as allowing heat transfer therebetween.

Classifications:

International (IPC 8-9): F24F3/14 F24F5/00 F25B15/00 F25B17/00 F28B3/00 F28C3/04 F28D21/00 F28D5/00 (Advanced/Invention); F24F3/12 F24F5/00 F28C3/00 F28D21/00 (Core/Invention)
CPC: F24F5/0014 F24F3/1417 F24F2003/144 F28C3/04 F28D21/0015
European: F24F3/14C1 F24F5/00C3 F28C3/04 F28D21/00D R24F3/14E
US: 165/114 62/304 62/477 62/477P 62/489



Family:

Publication number	Publication date	Application number	Application date
CN102149980 A	20110810	CN200980135082	20090810
CN102149980 B	20150819	CN200980135082	20090810
IN01628CN2011 A	20111202	IN2011CN01628	20110308
US2011132027 AA	20110609	US20090057771	20090810
US8887523 BB	20141118	US20090057771	20090810
WO10016040 A1	20100211	WO2009IB53507	20090810

Priority:

US20080087367P 20080808 US20090057771 20090810 WO2009IB53507 20090810

Probable Assignee: TECHNION RES AND DEV FOUNDATION

Assignee(s): (std): GOMMED KHALED ; GROSSMAN GERSHON ; TECHNION RES AND DEV FOUNDATION

Assignee(s): TECHNION RESEARCH AND DEVELOPMENT FOUNDATION LTD

Inventor(s): (std): GERSHON GROSSMAN ; GOMMED KHALED ; GROSSMAN GERSHON ; KHALED GOMMED

Inventor(s): GROSSMAN KHALED

Agent(s): TED W; TSIVION YORAM

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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: LIQUID DESICCANT DEHUMIDIFIER

Abstract: Source: US2010090356A A dehumidification and regeneration system is described. A liquid desiccant solution may be used to extract moisture from ambient air in a first location within a dehumidifier with a base. A regenerator in fluid communication with the dehumidifier may extract moisture from the liquid desiccant solution. One or more pumps may circulate the liquid desiccant through the dehumidifier. One or more pumps may circulate the liquid desiccant through the regenerator. The base may expose the liquid desiccant solution at least partially to the ambient air.

Classifications:

International (IPC 8-9): B01D53/18 G05D22/00 (Advanced/Invention); B01D53/18 (Core/Invention)

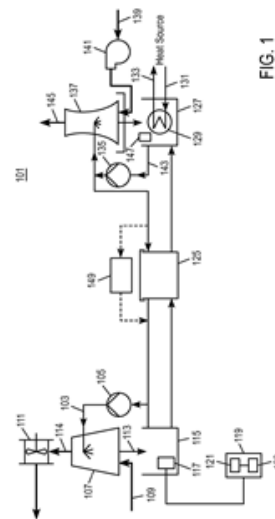
CPC: B01D53/263 B01D53/28 B01D2251/404 B01D2259/4508

European: B01D53/26C B01D53/28 L01D251/404 L01D259/45B

US: 261/29 261/29P

PatBase - US2010090356_AA

Patent Application Publication Apr. 15, 2010 Sheet 1 of 6 US 2010/090356 A1



Family:

Publication number	Publication date	Application number	Application date
US2010090356 AA	20100415	US20090576783	20091009
WO10042827 A1	20100415	WO2009US60179	20091009

Priority:

US20080104553P 20081010 US20090576783 20091009

Probable Assignee: LDWORKS LLC

Assignee(s): (std): BRUBAKER KAYE L ; CAPLINS MATTHEW WILLIAM ; GARDNER AMY E ; GIAMPAPA ANTHONY ; LDWORKS LLC ; KUCIA JOHN ; RADERMACHER REINHARD ; SINES WILLIAM TYLER

Inventor(s): (std): BRUBAKER KAYE L ; CAPLINS MATTHEW WILLIAM ; GARDNER AMY E ; GIAMPAPA ANTHONY ; KUCIA JOHN ; RADERMACHER REINHARD ; SINES WILLIAM TYLER

Agent(s): PATTON BOGGS LLP; LASKOSKI MATT 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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD OF MANUFACTURE AND ASSEMBLY FOR MODULAR WATER RECOVERY SYSTEM

Abstract: Source: US2013318790A A device recovers water from an ambient airstream. The device includes a chamber having a group of trays that hold respective amounts of liquid desiccant. A foam media element in each tray absorbs the desiccant to increase an exposed surface of the desiccant to the airstream. Fans and valves are used to control airflow through the device. A charge cycle circulates air through the device to remove water vapor from the airstream. A subsequent extraction cycle removes water collected in the liquid desiccant by a condenser communicating with the chamber. An integral heat exchanger adds heat to the chamber during the extraction cycle. A controller is used to integrate and control device operation. The desiccant trays may be selectively configurable in an array to best suit the intended installation. The trays may be arranged in column and row configurations, along with adjustable airflow patterns between each of the trays.

Classifications:

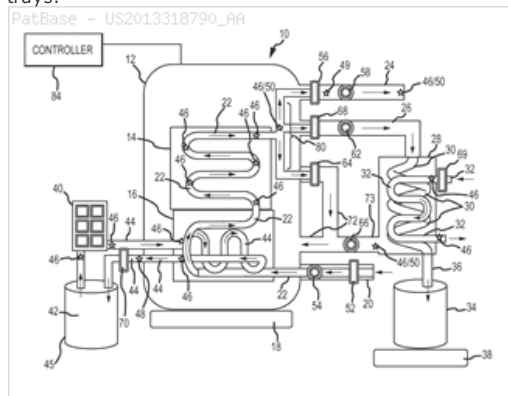
International (IPC 8-9): B01D53/02 B01D53/04 B01D53/18 B01D53/26 B01D53/28 B01D53/78 F24F3/14 F25B17/02 F25B37/00 F25B43/00 F25D21/14 (Advanced/Invention);

B01D53/28 (Advanced/Non-invention)

CPC: B01D53/263 F25D21/14 F25B17/02 F25B43/00 F24F3/1417

B01D53/26 B01D53/0454 B01D53/18 Y02B60/50 Y02B30/62 B01D53/28 F25B53/28 F25B37/00 Y10T29/49396 Y10T29/49826

US: 1/1 29/428 29/890.07 62/271 62/285 62/93 62/94 95/10 95/112 95/117 95/118 95/126 95/199 95/223 95/231 95/25 95/26 96/109 96/111 96/112 96/115 96/117 96/118 96/121 96/126 96/131 96/140 96/141 96/146 96/199 96/223 96/231 96/242



Family:

Publication number	Publication date	Application number	Application date
■ CN104813107 A	20150729	CN201380040414	20130604
■ CN104813107 B	20170808	CN201380040414	20130604
■ US2013318790 AA	20131205	US20120723113	20121220
■ US2013319021 AA	20131205	US20120660602	20121025
■ US2013319022 AA	20131205	US20120693418	20121204
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■ US2013319032 AA	20131205	US20120660639	20121025
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■ US2013319226 AA	20131205	US20120693398	20121204
■ US2013319227 AA	20131205	US20130746824	20130326
■ US2013319233 AA	20131205	US20120660620	20121025
■ US2013319243 AA	20131205	US20120660572	20121025
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■ US2013319246 AA	20131205	US20120660525	20121025
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■ US9039816 BB	20150526	US20120693451	20121204
■ US9061239 BB	20150623	US20120723113	20121220
■ US9114354 BB	20150825	US20120660620	20121025
■ US9126142 BB	20150908	US20130746824	20130326
■ WO13182911 A2	20131212	WO20131B01858	20130604
■ WO13182911 A3	20140220	WO20131B01858	20130604

Priority:

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WO20131B01858	20130604				

Probable Assignee: Z124

Assignee(s): (std): JOHNSON BRENT P ; Z124

Assignee(s): FLEXTRONICS INT USA INC

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