

PatBase - Search results 31 May 2017

Search query (1): PN=(JP6223418 OR JP61259728 OR US2894376 OR US20100090356 OR US5797272 OR US6094835 OR US6156102 OR US7766998 OR US5182921)

Results: 9

14-085793

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Search history

Search PN=(JP6223418 OR JP61259728 OR US2894376 OR US20100090356 OR US5797272 OR US6094835 OR US6156102 OR US7766998 OR
1: US5182921) (Results 9)

Title: AIR CONDITIONING APPARATUS AND METHOD

Abstract: Source: US2894376A (Claim 1) 1. Dehumidifying apparatus for dehuniidifying and cooling air at non-atmospheric pressure comprising, in combination: a pressure vessel; means for moving said air through said vessel; a first cooling coil through which coolant is passed, located in said vessel; first spray means for spraying hygroscopic liquid over said first coil; a first sump located below said vessel; first vent means for equalizing the pressure between said vessel and said first sump; first drain means for collecting in said first sump liquid from said first spray means; a first supply pipe connecting said first sump to said first spray means; a first pump in said first supply pipe; a second cooling coil through which coolant passes, located in said vessel downstream of said first coil; second spray means for spraying hygroscopic liquid over said second coil; a second sump located below said vessel; second vent means for equalizing the pressure between said vessel and said second sump; second drain means for collecting in said second sump liquid from said second spray means; a second supply pipe connecting said second sump to said second spray means; a second pump in said second supply pipe; wall means forming a regenerator chamber located outside said vessel; means for moving atmospheric air through said chamber; a heating coil in said chamber through which a heating medium is passed; third spray means for spraying hygroscopic liquid over said heating coil; a third sump; third drain means for collecting in said third sump liquid from said third spray means; a third supply pipe connecting said third sump to said third spray means; a third pump in said third supply pipe; a circulating pipe connecting said third sump to said first sump; a positive displacement pump in said circulating pipe; a gravityflow pipe connecting said first sump to a lower portion of said second sump; a re'urn pipe connecting said second supply pipe at a point downstream of said second pump to said third sump; and flow control means in said return pipe for controlling flow through said return pipe responsive to the level of hygroscopic liquid in said second SUMP.

Classifications:

International (IPC 8-9): F24F3/14 (Advanced/Invention);

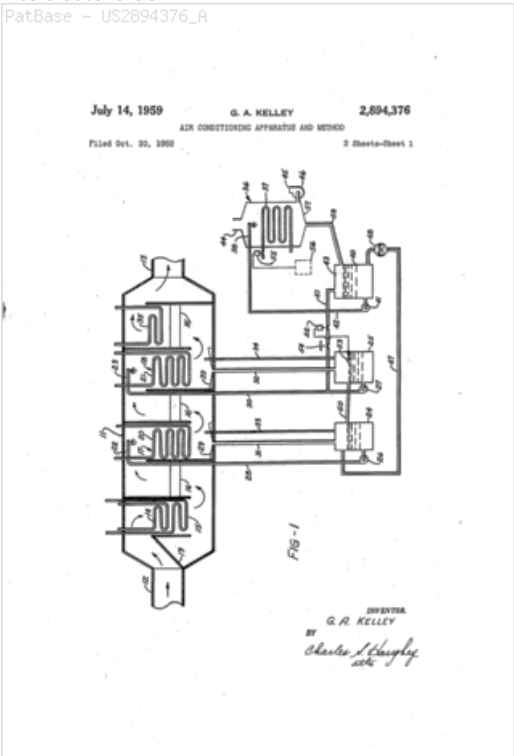
F24F3/12 (Core/Invention)

International (IPC 1-7): F24F3/00

CPC: F24F3/1417 F24F2003/144

European: F24F3/14 F24F3/14C1 R24F3/14E

US: 62/171 62/176.4 62/271 62/94



Family:

Publication number	Publication date	Application number	Application date
US2894376 A	19590714	US19550541727	19551020

Priority:

US19550541727 19551020

Probable Assignee:

SURFACE COMBUSTION CORP

Assignee(s): (std):

SURFACE COMBUSTION CORP

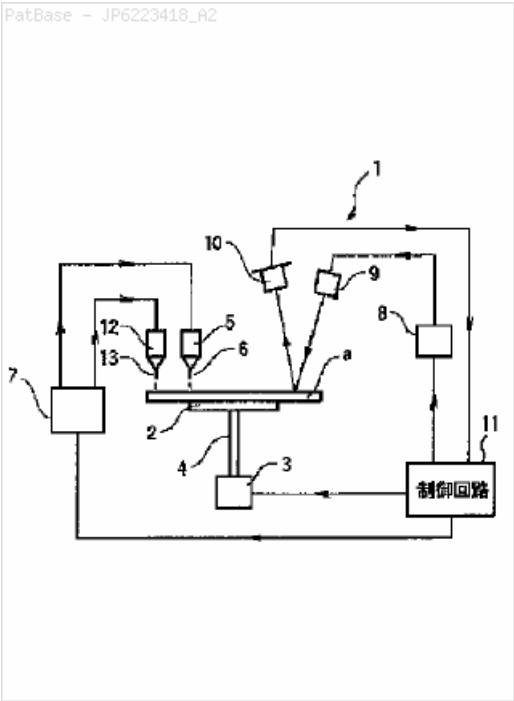
Inventor(s): (std):

KELLEY GILBERT A

Title: SPIN COATING METHOD AND DEVICE THEREFOR

Abstract: Source: JP6223418A PURPOSE: To provide the spin coating method by which a stable film thickness is obtainable and consequently an optical recording medium having a stable optical path difference is obtainable and the device therefor. CONSTITUTION: This spin coating device 1 has a rotating means consisting of a turn table 2 on which a light transparent substrate P is placed, a motor 3 and a spindle 4, a coating liquid dropping means consisting of a cylinder 5 and nozzle 6, etc., disposed above this means, a photoirradiating means consisting of a laser power source 8 and laser beam source 9 likewise disposed above this means and a photodetector 10 (photodetecting means) for measuring a reflected zero order diffracted light quantity. The detected information from this photodetector 10 is transmitted to a control circuit 11 (control means). The motor 3 is stopped by the signal from this control circuit 11. The spin coating device 1 is also provided with a washing liquid dropping means consisting of syringes 12, 13.

Classifications:
International (ipc 8-9): B05C11/08 B05D1/40 G03F7/16 G11B7/26 H01L21/02 H01L21/027 (Advanced/Invention); B05C11/08 B05D1/40 G03F7/16 G11B7/26 H01L21/02 (Core/Invention)
International (ipc 1-7): B05C11/08 B05D1/40 G03F7/16 G11B7/26 H01L21/027



Family:

Publication number	Publication date	Application number	Application date
JP6223418 A2	19940812	JP19930032661	19930128

Priority:
JP19930032661 19930128

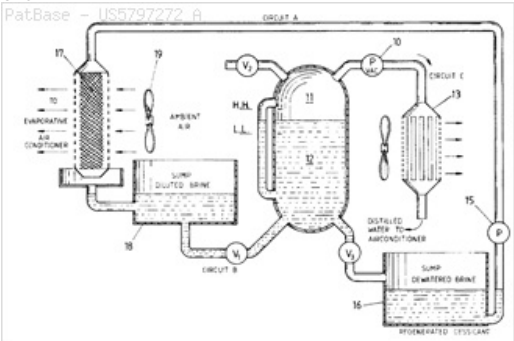
Probable Assignee: VICTOR COMPANY OF JAPAN
Assignee(s): (std): JVC KENWOOD CORP ; VICTOR CO OF JAPAN ; VICTOR COMPANY OF JAPAN
Assignee(s): VICTOR CO OF JAPAN LTD
Inventor(s): (std): KASAI TOSHIKI
Agent(s): KOYAMA YUU

Title: Vacuum dewatering of desiccant brines

Abstract: Source: US5797272A PCT No. PCT/AU95/00314 Sec. 371 Date Nov. 27, 1996 Sec. 102(e) Date Nov. 27, 1996 PCT Filed May 29, 1995 PCT Pub. No. WO95/33161 PCT Pub. Date Dec. 7, 1995Desiccant brine is heated and diluted in an air drier by coming into contact with air to be cooled in an evaporative cooler but is regenerated by dewatering in a vacuum chamber, from which it is discharged first into a sump, and then back into the vacuum chamber. Both the desiccant brine and air are heated in the air drier and the hot brine when in the vacuum chamber has a temperature above atmospheric, which provides a higher vapor pressure and its water is readily vaporized. The higher efficiency reduces the amount of heat input required, and thereby reduces the extent of heat exchanger requirement.

Classifications:

International (IPC 8-9): C23C16/509 F24F3/00 F24F3/14 F24F5/00 F25B15/06 F25B17/06 H01L21/205 H01L31/18 (Advanced/Invention); F24F3/14 F24F5/00 (Advanced/Non-invention); C23C16/50 F24F3/12 F24F5/00 H01L21/02 H01L31/18 (Core/Invention)
International (IPC 1-7): B01D43/00 F24F3/00 F24F3/14 F24F5/00 F25B15/06 F25B17/02 F25B17/06 F26B5/04
CPC: Y02B30/62 F24F3/1411 F24F3/1417 F24F2003/144
European: F24F3/14 F24F3/14C F24F3/14C1 R24F3/14E Y02B30/62
US: 62/238.3 62/271 62/93



Family:

Publication number	Publication date	Application number	Application date
AU199525573 A1	19951221	AU19950025573	19950529
AU592694 A0	19940623	AU1994PM05926	19940530
AU697594 B2	19981008	AU19950025573	19950529
CN1092317 C	20021009	CN19951093369	19950529
CN1149914 A	19970514	CN19951093369	19950529
GR1003023 B	19981203	GR19950100206	19950530
GR950100206 A	19960131	GR19950100206	19950530
IN183235 A	19991009	IN1995CA00591	19950525
KR19970703519 A	19970703	KR19960706811	19961130
TW275662 B	19960511	TW19950105415	19950529
US5797272 A	19980825	US19960750541	19961127
WO9533161 A1	19951207	WO1995AU00314	19950529
ZA9504378 A	19960124	ZA19950004378	19950101

Priority:

AU1994PM05926 19940530 AU19950025573 19950529 WO1995AU00314 19950529

Probable Assignee: WILLIAM ALLEN TRUSTS PTY LTD

Assignee(s): (std): FF SEELEY NOMINEES PTY LTD ; SEELEY F F NOMINEES ; WILTON JAMES ROBERT ; WILLIAM ELLEN TRUST PTY LTD

Assignee(s): WILLIAM ALLEN TRUSTS PTY LTD ; FFSEELEY NOMINEES PTY LTD ; JAMES ROBERT WILTON ; F F SEELEY NOMINEES PTY LTD ; FF ????? CORP

Inventor(s): (std): JAMES ROBERT WILTON ; ROBERT WILTON JAMES

Agent(s): MR R L DAWKINS

Designated states: AU CN ES KR US

Title: Method and apparatus for recovering water from air

Abstract: Source: US6156102A A process of separating water from ambient air involves a liquid desiccant to first withdraw water from air and treatment of the liquid desiccant to produce water and regenerated desiccant. Water lean air is released to the atmosphere. Heat generated in the process is recycled. The drying capacity, or volume of water produced, of the system for a given energy input is favored over the production of dried air.

Classifications:

International (IPC 8-9): B01D53/18 B01D53/26

F24F3/14 (Advanced/Invention);

B01D53/18 B01D53/26 F24F3/12 (Core/Invention)

International (IPC 1-7): B01D15/00 B01D17/09 B01D47/06

B01D53/18 B01D53/26 B01F3/04 F24F3/14

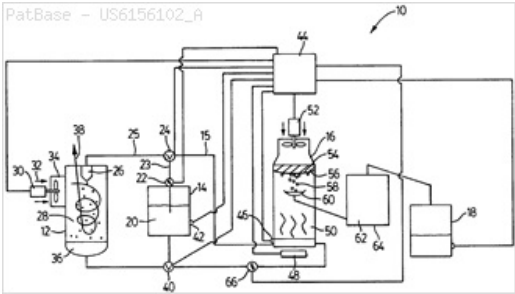
CPC: B01D53/18 B01D53/263 F24F3/1417

European: B01D53/18 B01D53/26C F24F3/14C F24F3/14C1

US: 95/172 95/173 95/174 95/178 95/179 95/186 95/188 95/193

95/206 95/209 95/211 95/219 95/227 95/228 95/229 95/231 96/188

96/242 96/265 96/266 96/295 96/314



Family:

Publication number	Publication date	Application number	Application date
AU200010242 A1	20000529	AU20000010242	19991108
AU200010242 A5	20000529	AU20000010242	19991108
CA2288543 AA	20000510	CA19992288543	19991104
US6156102 A	20001205	US19980188349	19981110
WO0027506 A1	20000518	WO1999CA01051	19991108

Priority:

CA19992288543 19991104 US19980188349 19981110 WO1999CA01051 19991108

Probable Assignee: BANK OF NOVA SCOTIA

Assignee(s): (std): CONRAD HELMUT GERHARD ; CONRAD WAYNE ERNEST ; FANTOM TECH INC ; FANTOM TECHNOLOGIES INC

Assignee(s): TRIMIN CAPITAL CORP ; BANK OF NOVA SCOTIA

Inventor(s): (std): CONRAD HELMUT GERHARD ; CONRAD WAYNE ERNEST

Inventor(s): HELMUT GERHARD CONRAD ; WAYNE ERNEST CONRAD

Agent(s): BERESKIN AND PARR

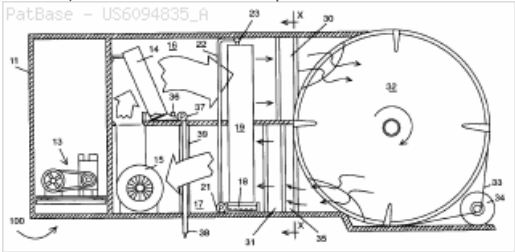
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Title: Heat pump dryer with desiccant enhanced moisture removal

Abstract: Source: US6094835A A method and apparatus for enhancing the evaporation and moisture removal from moisture laden products in a dryer. The invention combines the inventor's prior U.S. Pat. No. 4,719,761, with a rotating drying drum having filters at the output area, and a separate pump for allowing condensation from a chilled coil to drain off, while a desiccant formed from pads or a rotatable wheel is part of a continuous feedback loop for recycling moisture. A condenser is positioned between the desiccant and the drying drum and is used as a heat exchanger for both the air inlet to the drum and the air outlet from the drum. Additionally, the evaporator drain pipe can form an additional heat exchanger when the pipe is used in the pathway of air passing from the desiccant to the evaporator coil. The invention is useful for drying various items such as clothes, agricultural products, wood, vegetables, fruit and electric components such as wafers.

Classifications:

International (IPC 8-9): F24F3/14 F26B21/08 (Advanced/Invention)
International (IPC 1-7): F26B21/06
CPC: D06F58/20 D06F58/206 D06F58/24 D06F58/26 F24F3/1423 F24F2203/1004 F24F2203/1012 F24F2203/1016 F24F2203/1032 F24F2203/104 F24F2203/1052 F24F2203/106 F24F2203/1068 F24F2203/1072 F24F2203/1084 F24F2203/1096 F26B21/08
European: D06F58/20 D06F58/20H D06F58/24 D06F58/26 F24F3/14C2 F26B21/08 R24F203/10A R24F203/10C R24F203/10D R24F203/10H R24F203/10J R24F203/10M R24F203/10N2 R24F203/10P R24F203/10Q R24F203/10T R24F203/10W
US: 34/77 34/80 34/86 62/271 62/94



Family:

Publication number	Publication date	Application number	Application date
US6094835 A	20000801	US19980211398	19981214

Priority:

US19980211398 19981214

Probable Assignee: CENTRAL FLORIDA UNIV OF

Assignee(s): (std): UNIV CENTRAL FLORIDA

Assignee(s): UNIVERSITY OF CENTRAL FLORIDA ; CENTRAL FLORIDA UNIV ; CENTRAL FLORIDA UNIV OF ; OF CENTRAL FLORIDA UNIV

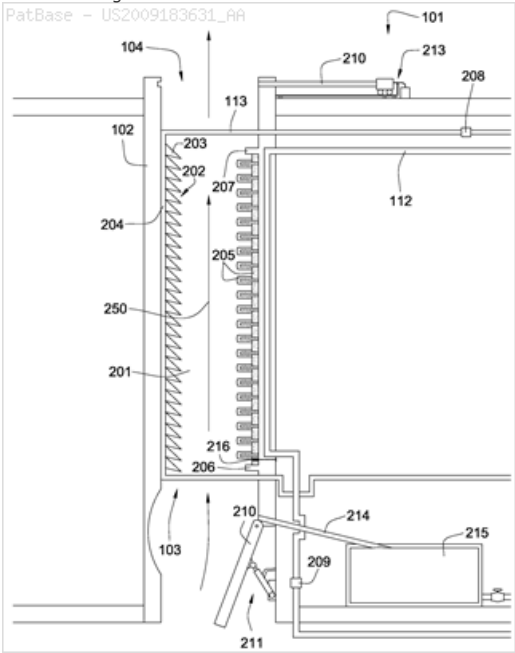
Inventor(s): (std): CROMER CHARLES J

Title: WATER EXTRACTION APPARATUS

Abstract: Source: US2009183631A In one aspect of the present invention, an apparatus for the extraction of water from air incorporated into a wall of a building has a cavity formed in the wall. The cavity has an air inlet and an air outlet. A condensing surface is disposed within the cavity and is adapted to direct condensed water to a water storage unit. In another aspect of the present invention, the cavity is formed between two different building walls.

Classifications:

International (IPC 8-9): B01D37/04 B01D47/16
B01D53/02 (Advanced/Invention);
B01D37/00 B01D47/00 B01D53/02 (Core/Invention)
CPC: B01D5/0003 B01D5/009 B01D53/265 E03B3/28 F24J3/085
Y02E10/14
European: B01D5/00B B01D5/00K16 B01D53/26D E03B3/28
F24J3/08B Y02E10/14
US: 95/113 95/117 95/126 95/148 95/113 96/118 96/125 96/143
96/146 96/243 96/244



Family:

Publication number	Publication date	Application number	Application date
US2009183631 AA	20090723	US20080016502	20080118
US7766998 BB	20100803	US20080016502	20080118

Priority:

US20080016502 20080118

Probable Assignee: HALL DAVID R MR

Assignee(s): (std): GERLA ANDREW ; HALL DAVID R ; LARSEN JOSHUA ; WILDE TYSON J

Assignee(s): HALL DAVID R MR

Inventor(s): (std): GERLA ANDREW ; HALL DAVID R ; LARSEN JOSHUA ; WILDE TYSON J

Agent(s): TYSON J WILDE NOVATEK INT INC; TYSON J

Title: LIQUID DESICCANT DEHUMIDIFIER

Abstract: Source: US2010090356A A dehumidification and regeneration system is described. A liquid desiccant solution may be used to extracts 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.

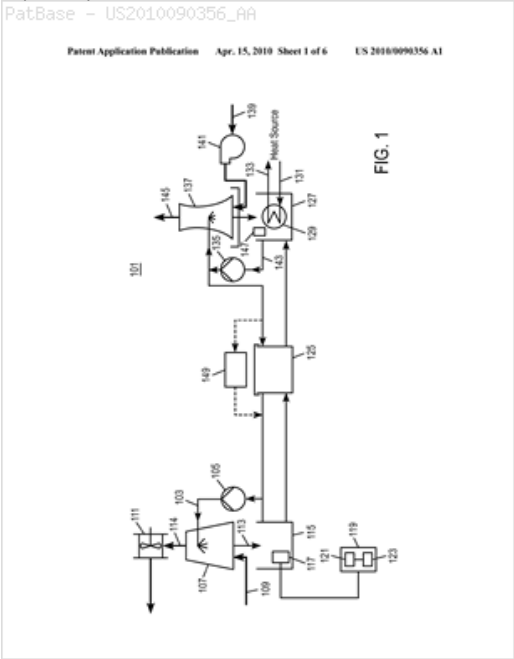
Classifications:

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



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 ; KUCIA JOHN ; LDWORKS LLC ; 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