

Search history

Search 1: FT=(Evaporator* and conical* and thin* and layer* and pump* and heat exchanger* and heater* and sprinkler*) (Results 9)

1) Family number: 52599519 (US2012324911 AA)

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Title: DUAL-LOOP COOLING SYSTEM

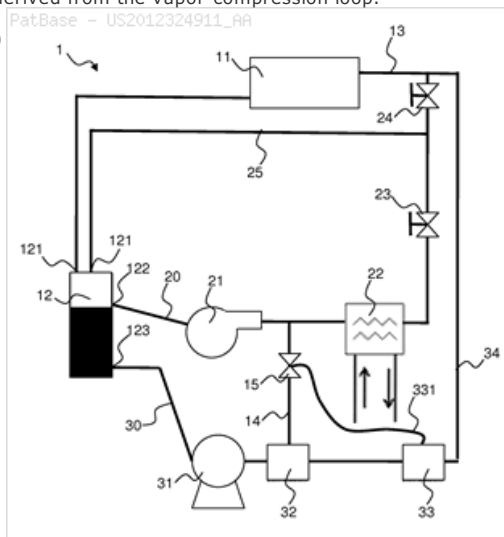
Abstract: Disclosed are methods and apparatuses for cooling a work piece surface using a dual-loop cooling system. The system includes a vapor-compression loop and a liquid-evaporation loop. The loops are configured to prepare a coolant at or approximately at saturation for delivery into a chamber for cooling the surface. A preferred liquid-evaporation loop includes a chamber, a phase separator, a liquid pressurizer, and a vapor mixer that heats the coolant to or near its saturation temperature. A preferred vapor-compression loop includes the phase separator, a compressor, a condenser, an expansion valve, and a return line. The vapor mixer preferably heats the coolant by mixing liquid coolant with vapor coolant derived from the vapor-compression loop. A two-phase flow detector may be disposed downstream of the vapor mixer and be in communication with a vapor valve disposed upstream of the vapor mixer to ensure that an appropriate amount of vapor is fed into the vapor mixer to induce evaporation. Methods include cooling a surface by cycling a coolant through the liquid-evaporation loop and preparing the coolant at saturation with vapor derived from the vapor-compression loop.

Classifications:

International (IPC 8-9): F25B23/00 F25B25/00 F25B39/02 F25B41/00 F25B41/04 F25D15/00 F25D17/02 F25D23/12 F25D25/00 F25D31/00 F28C3/08 F28D1/02 F28D1/04 F28D1/053 F28D15/00 F28D15/02 F28D21/00 F28D7/02 F28D9/00 F28D9/02 F28F1/36 F28F1/38 F28F13/00 F28F13/02 F28F13/06 F28F13/18 F28F21/06 F28F25/10 F28F27/00 F28F3/12 F28F7/00 F28F9/02 F28F9/26 F28F99/00 G05D23/00 G06F1/20 H01L23/367 H01L23/427 H01L23/46 H01L23/467 H01L23/473 H05K1/02 H05K7/14 H05K7/20

CPC: H05K7/20809 H05K7/20827 H01L23/427 H01L23/473 H01L23/4735 H01L2924/0002 H05K7/20 G06F1/20 G06F2200/201 F28D2021/0028 F28F1/36 F28F13/12 F28F2009/029 F28F21/06 F28F3/048 F28F7/02 F28D1/0233 F28D9/0093 F28F13/185 F28F2265/26 F28F7/00 F28F9/0221 F28F9/0263 G06F1/206 Y02D10/16 F28D15/0266 F28D15/06 H05K7/20836 F25B23/006 F25B41/003 F28D15/02 F28F2250/08 H05K7/20363 H05K7/20309 H05K7/208 H01L23/4006 H01L23/4012 H05K7/203 H05K7/20818 F28C3/08 F28D15/00 H01L2924/00 F28F13/02 F28F3/12 F28F9/26 H05K7/20327 F25B2400/0401 F25B2400/0403 F25B2400/0409 F25B25/00 F25B41/00 F25B41/04 H05K7/2039 F28F13/06 H05K7/20381 F28D2021/0029 H05K7/20254 H05K7/20772 F28F9/0258 H01L23/3672 H01L23/46 H05K1/0204 F28D21/00 H05K7/20263 H05K7/20272 H05K7/20409 H05K7/1427 H05K7/1485

US: 1/1 165/100 165/104.11 165/104.19 165/104.21 165/104.22 165/104.25 165/104.27 165/104.28 165/104.29 165/104.31 165/104.32 165/133 165/166 165/175 165/182 165/244 165/84 165/96 257/712 361/679.47 361/699 62/259.2 62/304 62/62



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: EBULLIENT LLC

Assignee(s): (std): EBULLIENT INC ; EBULLIENT LLC ; SHEDD TIMOTHY A ; WISCONSIN ALUMNI RES FOUND

Assignee(s): WISCONSIN ALUMNI RESEARCH FOUNDATION

Inventor(s): (std): BUCHANAN ROBERT A ; LINDEMAN BRETT A ; LINDERAN BRETT A ; LIU BRIAN B ; MEIVES MARK S ; RIPLEY KEVIN M ; RODARTE MARK A ; SHEDD TIMOTHY A ; TAYLOR TONY P

Agent(s): BOYARSKI NICHOLAS J; BOYARSKI NICHOLAS JAMES MR; BOYLE FREDRICKSON SC; HAVERKAMP JENS; NICHOLAS J

Designated states: AL AE AG 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 67366846 (US2017311612 AA)

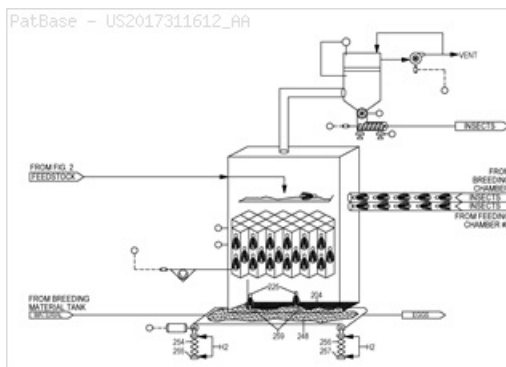
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Title: INSECT PRODUCTION SYSTEMS AND METHODS

Abstract: Variable-scale, modular, easily manufacturable, energy efficient, reliable, and computer operated Insect Production Superstructure Systems (IPSS) may be used to produce insects for human and animal consumption, and for the extraction and use of lipids for applications involving medicine, nanotechnology, consumer products, and chemical production with minimal water, feedstock, and environmental impact. An IPSS may comprise modules including feedstock mixing, enhanced feedstock splitting, insect feeding, insect breeding, insect collection, insect grinding, pathogen removal, multifunctional flour mixing, liquid mixing, shaping, cooking, flavoring, biocatalyst mixing, exoskeleton separation, liquid separation, and lipid extraction. An IPSS may be configured to be constructed out of a plurality of containerized modules.

Classifications:

International (IPC 8-9): A01K67/00 A01K67/033 A21D2/00 A21D2/02 A21D2/14 A21D2/18 A21D2/34 A21D2/36 A21D6/00 A23K10/20 A23K20/163 A23K20/174 A23K20/20 A23K50/90 A23L1/16 A23L13/10 A23L13/40 A23L2/46 A23L2/56 A23L2/60 A23N17/00 A23P30/00 B02C23/10 C11C1/10 C12G3/06
CPC: A01K67/033 A21D2/34 A23K20/163 A23K20/174 A23K20/20 A23K50/90 C11C1/10 A01K2227/706 A23P30/00 A21D6/00 A23K10/20 A23N17/007 A01G22/15 A23L2/46 A23L2/56 A23L2/60 A23V2002/00 C02F1/28 C02F1/42 C02F1/44 C02F2001/422 C02F2001/425 C12G3/06
US: 1/1 119/6.5 426/2 426/474

**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

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 US20180207148 20181202 US20180237028 20181231

Probable Assignee:

INSECTERGY LLC

Assignee(s): (std):

INSECTERGY LLC ; LEO DANIEL MICHAEL

Inventor(s): (std):

LEO DANIEL MICHAEL

3) Family number: 73614979 (CO20170006027 A1)

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Title: Conical EVAPORATOR THIN LAYER (Machine translation)

Abstract: Source: CO20170006027 A1 **Machine translation:** The present invention relates to a thin-film evaporation device comprising a base, a sheet with an outer face, an inner face, a lower end connected operationally to the base; and an opposite end to the lower end. In addition, the evaporation device comprises a through hole located at the lower end of the sheet; a pump with a suction connected to the perforation and a download. Also, the device comprises a heat exchanger of calorcon an inlet connected to the discharge of the pump and an outlet, a sprinkler connected to the outlet of the heat exchanger and located adjacent to the upper end of the sheet, and a heater located inside of the base and located below the sheet.

Classifications:

International (IPC 8-9): A61L9/03 B01D1/22 B01D1/24 B01D15/00 H01J37/32

Family:

Publication number	Publication date	Application number	Application date
CO20170006027 A1	20181228	CO20170006027	20170616

Priority:

CO20170006027 20170616

Probable Assignee: UNIV PONTIFICIA BOLIVARIANA**Assignee(s):** (std): UNIV PONTIFICIA BOLIVARIANA**Assignee(s):** UNIVERSIDAD PONTIFICIA BOLIVARIANA**Inventor(s):** (std): CARRENO OLEJUA ARIEL RENE ; CASTELLANOS OLARTE JAVIER MAURICIO**4) Family number: 59089077 (FR3012271 A1)**

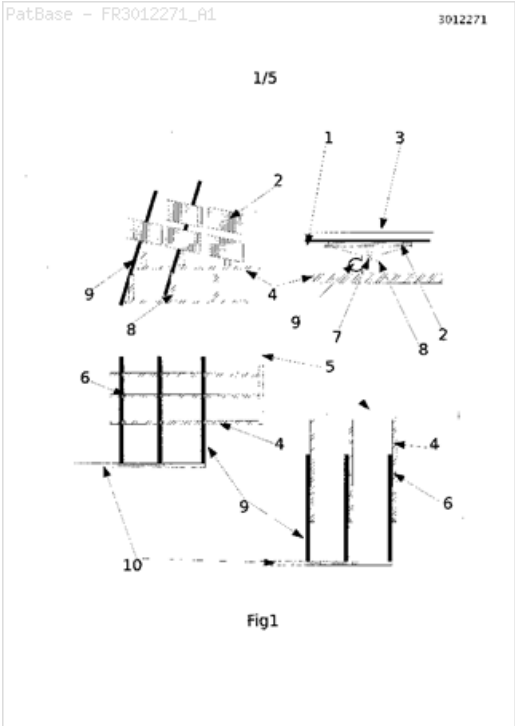
© PatBase

Title: SYSTEM ELECTRO / THERMODYNAMICS AND PRODUCTION OF ENERGY STORAGE (Machine translation)

Abstract: Source: FR3012271 A1 **Machine translation:** This invention describes a method and devices built around cell

Peltier / Seebeck to produce electricity, hot water and cooling from solar radiation and the means to store this energy. It includes solar panels Fig1 cooled comprising Peltier cells, preferentially driven by solar power compressor and a gas or a circulating fluid for performing a thermodynamic cycle. Resistances Peltier / Seebeck or photovoltaic cells or a combination of resistances Peltier / Seebeck and photovoltaic cells included in a solar panel having one face (1,3) is thermally insulated and the other face is cooled by a fluid (7, 8 9) are exposed by their insulated facing solar radiation in such a manner that a temperature gradient induced by solar radiation, and cooling, generates a potential difference and an electric current in a circuit including resistors Peltier / Seebeck possibly supplemented by a photovoltaic effect. The fluid or cooling gas from the non exposed face of the solar panel can boost and maintain temperature gradients between the two faces resistances Peltier / Seebeck (14) of the circuit to generate electricity and allow the animation a thermodynamic circuit whose heat exchanges shall be assisted by resistances Peltier / Seebeck to produce electric current, the cold and hot water. The generated current, heat and cold products are directly used, or stored in an electro / thermodynamic accumulator operating with a cooled gas and a molten salt.

Classifications:
International (IPC 8-9): H02S10/00 H02S40/00
CPC: F25B9/04 H01L31/0521 H01L35/30 H02S40/44 Y02E10/50 Y02E10/60



Family:

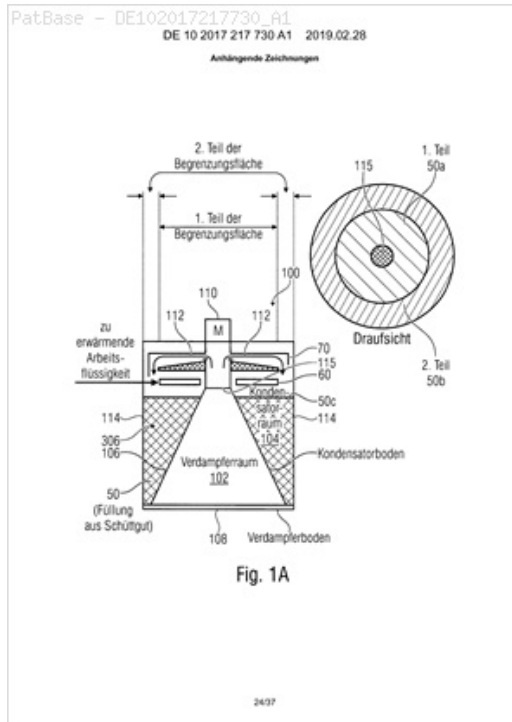
Publication number	Publication date	Application number	Application date
FR3012271 A1	20150424	FR20130002429	20131021

Priority:
FR20130002429 20131021
Probable Assignee: UGOLIN NICOLAS GILBERT
Assignee(s): (std): UGOLIN NICOLAS GILBERT
Assignee(s): NICOLAS GILBERT UGOLIN
Inventor(s): (std): UGOLIN NICOLAS GILBERT
Inventor(s): NICOLAS GILBERT UGOLIN
Agent(s): NICOLAS UGOLIN

5) Family number: 73335367 (DE102017217730 A1) © PatBase

Title: Cond MORE ENSI WITH FILL AND HEAT PUMP (Machine translation)

Abstract: Source: DE102017217730 A1 **Machine translation:** A cond more" (306), comprising: a housing (114) with a filling (50), wherein the fill 50 regarding an operating orientation of the condensing apparatus (306) has an upper limit surface (50c) in the housing (114) arranged; a sprinkler system (60) for water only a first portion (50a) on the upper boundary surface (50c) with a working fluid, wherein a second portion (50b) of the upper boundary surface (50c) is not cleansed; and a housing (114) arranged in the working steam delivery system (70) for supplying working steam to the second part (50b) of the upper boundary surface of the filling.

Classifications:**International (IPC 8-9):** F25B30/00 F25B39/04 F28B1/02 F28D21/00**CPC:** F25B2339/047 F25B30/02 F25B39/04 F28B3/00 F28C1/08 F28F25/02**Family:**

Publication number	Publication date	Application number	Application date
DE102017217730 A1	20190228	DE201710217730	20171005
DE102017217730 B4	20200116	DE201710217730	20171005

Priority:

DE201710214782 20170823

DE201710217730 20171005

Probable Assignee:

EFFICIENT ENERGY GMBH

Assignee(s): (std):

EFFICIENT ENERGY GMBH

Inventor(s): (std):

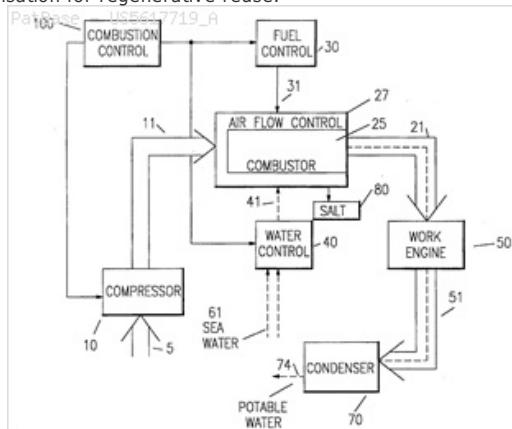
KNIFFLER OLIVER ; LANG JOHANNES

6) Family number: 30513153 (US5617719 A)

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Title: VAPOR-AIR STEAM ENGINE

Abstract: A vapor-air steam engine is described which operates at high pressure and utilizes a working fluid consisting of a mixture of compressed air, fuel combustion products and steam. In the new cycle described working fluid is provided at constant pressure and temperatures. Combustion air is supplied adiabatically by one or more stages of compression. Fuel is injected at pressure as needed. From 40 percent to all of compressed air is burned. Water is discretely injected at high pressure to produce steam and thus provide an inert high specific heat diluent required for internal cooling of an internal combustion turbine or other type system. The use of extensive water injection inhibits the formation of pollutants, increases the efficiency and horsepower of an engine, and reduces specific fuel consumption. The new cycle may also be operated open or closed; in the latter case, water may be recouped via condensation for regenerative reuse.

Classifications:**International (IPC 8-9):** B01D1/00 B01D1/14 B01D5/00 B01F5/00 B01F5/04 B01J19/24 B01J4/00 F01D25/28 F01K21/00 F01K21/04 F02C3/20 F02C3/30 F02C7/00 F02C9/28 F02C9/48 F02C9/50 F02M25/00 F02M25/03 F23D11/40 F23D14/46 F23D14/62 F23J15/00 F23K5/02 F23K5/10 F23L7/00 F23R3/28 F24F13/04 F24F13/06**International (IPC 1-7):** B01F5/00 B01F5/04 E03B1/00 F01K21/04 F02C3/00 F02C3/30 F02C9/00 F02C9/28 F02C9/48 F02C9/50**CPC:** F01K21/047 Y10S203/21 F01D25/285 F02C3/30 F02C7/00 F05D2270/082 Y02T50/672 B01D1/14 B01D5/0027 B01F2005/0025 B01F2005/0034 B01F5/0453 B01F5/0463 B01J19/2405 B01J4/001 F23C2900/99009 F23D11/40 F23D14/62 F23K5/10 F23R3/28 F24F13/04 F24F2013/0608 Y02T50/678 F05D2270/083 F23J15/003 F23L2900/07002 F23L2900/07008 F23L2900/07009 F23L7/00 Y02T50/677 Y10T137/0329**US:** 137/3 137/3P 203/11 203/DIG.2 203/DIG.20 60/39.05 60/39.26 60/39.260P 60/39.3 60/39.300S 60/39.55 60/39.550S 60/392.6 60/775 60/775P 60/783 607/750**Family:**

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WO9946484 A1	19990916	WO1999US05271	19990310

Priority:

US19920967289	19921027	WO1993US10280	19931027	US19930232047	19931027
US19940232047	19940426	US19980042231	19980311	US19980042231	19980313
WO1999US05271	19990310	EP19990913847	19990310	US20000645986	20001027
US20020161159	20020530	US20020418989P	20021015	US20020418989	20021015
US20030713899	20030912	US20030669120	20030922	WO2003US32618	20031015
US20030686191	20031015	US20050049197	20050202		

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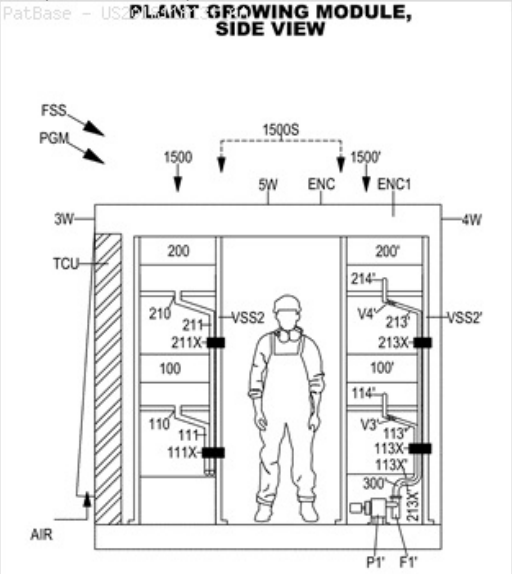
Agent(s): ASPEN PHARMA PTY LTD; AVENTUM IP LAW LLP; DANIEL FREIMANN AND CO; GRIFFITH HACK; KNOBBE MARTENS OLSON AND BEAR LLP; MCCARTHY TETRAULT LLP; OSTROLENK FABER LLP; SHAPIRO COHEN; SPRUSON AND FERGUSON; דניאל פריימן ושות'; 永新专利商标代理有限公司; 邵伟; 박희진

Designated states: AT AE AG AL AM 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

Abstract: Variable-scale, modular, easily manufacturable, energy efficient, reliable, and computer-operated farming superstructure systems (FSS) may be used to produce *cannabis* for human consumption with minimal water and environmental impact. A system for producing electricity, heat, and *cannabis* includes a power production system (PPS), a farming superstructure system (FSS), and a temperature control unit (TCU). Methods to method to separate volatiles from *cannabis* are described. Methods to asexually clone a plurality of *cannabis* plants are also provided.

Classifications:

International (IPC 8-9): A01C23/00 A01C23/04 A01G1/00 A01G2/10 A01G22/00 A01G22/15 A01G24/00 A01G24/18 A01G24/23 A01G24/25 A01G24/30 A01G24/40 A01G24/48 A01G25/00 A01G25/16 A01G27/00 A01G3/00 A01G3/08 A01G31/00 A01G31/02 A01G31/06 A01G7/02 A01G7/04 A01G9/02 A01G9/029 A01G9/10 A01G9/14 A01G9/18 A01G9/20 A01G9/24 A01G9/26 A01H5/02 A01H5/06 A01H5/12 A01H6/28 A01K67/033 A21D13/04 A21D13/40 A23B7/153 A23G9/32 A23L29/00 A23L33/10 A23L5/20 A23L7/10 A23L7/126 A23N15/00 A61K36/185 B01D11/02 B26D3/00 C05B17/00 C05C11/00 C05D1/00 C05D3/00 C05D5/00 C05D9/00 C05G1/00 F02C3/04 F25B13/00 H02K7/18 H05B33/08 H05B37/02 **CPC:** A01G24/00 A01G24/18 A01G24/23 A01G24/48 A01G7/02 A01G7/045 A01G9/02 A01H5/12 A01H6/28 A23B7/153 A23L5/23 A23L7/10 A23V2002/00 A61K2236/00 A61K36/185 A01C23/042 A01G22/00 A01G24/30 A01G24/40 A01G31/06 A01G9/0297 A01G9/246 A01G9/247 A01G9/249 A23L33/10 A23N15/00 C05B17/00 C05C11/00 C05D1/00 C05D3/00 C05D5/00 C05D9/00 C05G1/00 A01C23/008 A01G2003/005 A01G27/006 A01G3/00 A01G9/14 A01G9/18 A01G9/20 A01G9/24 A01G9/26 H02K7/1823 A01G2031/006 A01G31/02 A01G1/001 A01G9/1066 A01G2/10 B01D11/0203 B01D11/0207 B01D11/0226 B01D11/0257 B01D11/0284 B01D11/0288 B01D11/0296 B01D9/0054 B26D3/00 F02C3/04 F05D2220/76 F25B1/00 F25B13/00 F25B15/04 F25B15/06 F25B27/02 A01G9/1033 A01G2031/003 A01G2031/005 A01G25/00 A01G25/16 A01G3/08 A01G31/001 A01H5/02 A21D13/40 A21D2/34 A21D2/36 A23G9/32 A23L29/00 A23L29/20 A23L33/105 A23L33/135 A23L7/126 A01G7/04 A01H5/10 A21D13/04 H05B45/20 H05B47/11 H05B47/16 A01G22/15 A01G24/25 A01H4/005 A01H5/06 A01K2207/20 A01K2227/706 A01K67/033 A01K67/0339 A61K2236/11 A61K2236/33 A61K2236/37 A61L2/12 B01D11/028 B01D9/0004 B01D9/0018 B01D9/004 **US:** 1/1 426/481 47/17 47/62A 47/66.6 800/298



Family:

Publication number	Publication date	Application number	Application date
US10517320 BB	20191231	US20180904044	20180223
US10595474 BB	20200324	US20170609472	20170531
US2018116131 AA	20180503	US20170841923	20171214
US2018332786 AA	20181122	US20170600714	20170520
US2018343806 AA	20181206	US20170609472	20170531
US2018343812 AA	20181206	US20180029627	20180708
US2018343900 AA	20181206	US20170784112	20171014
US2018343901 AA	20181206	US20180904044	20180223
US2019000029 AA	20190103	US20170639437	20170630
US2019037792 AA	20190207	US20170667022	20170802
US2019246591 AA	20190815	US20190396134	20190426

Priority:

US20170600714 20170520	US20170609472 20170531	US20170639437 20170630
US20170667022 20170802	US20170784112 20171014	US20170841923 20171214
US20180904044 20180223	US20180029627 20180708	US20190396134 20190426

Probable Assignee: INSECTERGY LLC

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Inventor(s): (std): FREITAS SHAWN ROBERT ; LEO DANIEL MICHAEL

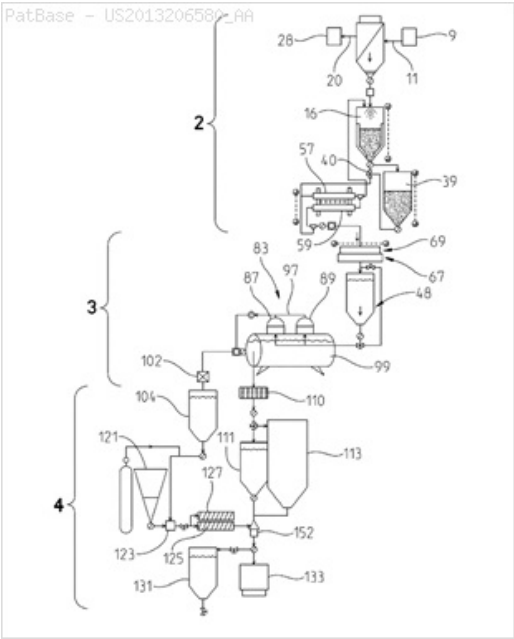
8) Family number: 54081238 (US2013206580 AA)

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Title: CONTINUOUS COOLANT PURIFICATION PROCESS AND DEVICE

Abstract: A fluid processing device is provided for recycling a previously used water and glycol containing fluid by removing contaminants including hydrocarbon, metals, particulates and water contaminants from the water and glycol containing fluid. The device includes a particulate filter for removing particulates, an activated carbon filter for removing hydrocarbon contaminants, a micron-sized filter for removing at least one of particulate and metal contaminants, a high pressure membrane filter for removing contaminants and water, and a **heater** for heating the glycol containing fluid to a temperature at least near the boiling point of water in a predetermined reduced pressure atmosphere. The device also includes a low pressure separator having a tank kept generally at or near the predetermined reduced pressure for removing additional water from the water and glycol containing fluid. The low pressure separator includes a first exit port for removing separated water from the separator as steam, and a second exit port for removing substantially water free glycol based fluid from the low pressure separator.

Classifications:
International (IPC 8-9): B01D21/00 B01D3/00 B01D3/10 C09K5/20
CPC: B01D1/222 B01D3/10 C09K5/20
US: 202/176 203/41



Family:

Publication number	Publication date	Application number	Application date
US2013206580 AA	20130815	US20120706945	20121206
WO13086160 A1	20130613	WO2012US68201	20121206

Priority:

US20110568525P 20111208 US20110569254P 20111211 US20120706945 20121206

Probable Assignee: OAKWOOD FOODS LLC D B A OAKWOOD TECHNOLOGIES

Assignee(s): (std): OAKWOOD FOODS LLC D B A OAKWOOD TECHNOLOGIES

Assignee(s): OAKWOOD FOODS LLC (D B A OAKWOOD TECHNOLOGIES)

Inventor(s): (std): MARBURGER JOHN ; OKEY PHILIP

Agent(s): INDIANO VICTOR E

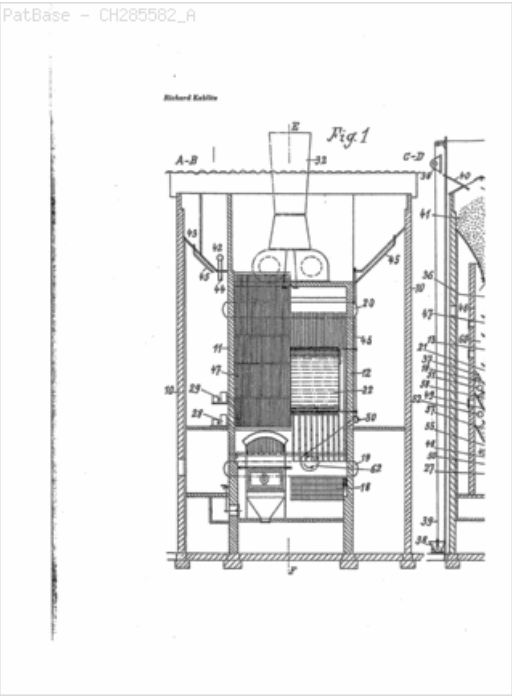
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM 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

9) Family number: 25578973 (CH285582 A) © PatBase

Title: METHOD FOR STEAM GENERATION. (Machine translation)

Abstract: Source: CH285582 A **Machine translation:** (Claim 1) Claims: I. A method for generating steam by means of pre-dried, partially entsehwelter, solid fuels, characterized in that the drying and preheating of the fuel on the one hand and the Sehwe lung of fuels is fes other hand effected through independently controllable heating means by for drying and preheating of the fuel, the burner flue gases are used with the rest of her Temperaturgefaelle about **1.80** To be 60 different, while the other Behei-tion of the fuel on and within the Sehwe l-teinperatur between a screening and a urine first grate portion be sensitive Schwelraumes by at least one other heating means is achieved.

Classifications:
International (IPC 8-9): F23K1/00 F23K1/04
International (IPC 1-7): F23K1/04
CPC: F23B1/00 F23B2700/012



Family:

Publication number	Publication date	Application number	Application date
CH285582 A	19520915		19480504

Probable Assignee: KABLITZ RICHARD
Assignee(s): (std): KABLITZ RICHARD
Inventor(s): (std): RICHARD KABLITZ
Inventor(s): KABLITZ RICHARD