

Search history

Search 1: PN=(WO2016098025) (Results 1)
Search 2: SFT=(biodiesel and (glycerol or glycerine or glycerin)) (Results 6160)
Search 3: 2 and (process or method) (Results 5994)
Search 4: 3 and (water near wash+) (Results 432)
Search 5: 3 and (water near wash*) (Results 1573)
Search 6: 5 and PD<20141217 (Results 1190)
Search 7: 6 and (agitation or stir*) (Results 871)
Search 8: 7 and (decant+ or (gravity near separation)) (Results 86)
Search 9: SFT=(8) and IC=(C07C) (Results 40)
Search 10: RF=(NC2017006079) (Results 9)

Title: PURIFICATION OF BIODIESEL WITH ADSORBENT MATERIALS**Abstract:** A method of purifying a biodiesel fuel by contacting the biodiesel fuel with at least one adsorbent material, such as magnesium silicate. Such method removes impurities, such as soap, formed during the production of biodiesel fuels.**Classifications:****International (IPC 8-9):** B01D15/00 B01J20/10 C07C67/56 C10L1/02 C10L1/18 C10L5/00 C10L8/00 C11B3/10 C11C

C11C1/00 C11C1/08 (Advanced/Invention);

B01D15/00 B01J20/10 C07C67/00 C10L1/00 C10L1/10 C10L5/00 C10L8/00 C11B3/00 C11C1/00 (Core/Invention);

C10L C11C (Subclass/Invention)

International (IPC 1-7): C10L1/18 C10L5/00 C11C C11C1/00**CPC:** B01D15/00 B01J20/10 B01J20/28004 B01J20/28011 B01J20/28057 C07C67/56 C10L1/026 C11C1/08 Y02E50/13**European:** B01D15/00 B01J20/10 B01J20/28B12 B01J20/28B4 B01J20/28F4 C07C67/56 C10L1/02D C11C1/08**US:** 44/307 44/308 44/320 44/605 44/605P 554/191 554/192**Family:**

Publication number	Publication date	Application number	Application date
AT450592 E	20091215	AT20040794109T	20041001
AU2004282511 AA	20050428	AU20040282511	20041001
AU2004282511 BB	20070809	AU20040282511	20041001
AU2004282511 BI	20080214	AU20040282511	20041001
BRPI0415072 A	20061128	BR2004PI15072	20041001
CA2541327 AA	20060403	CA20042541327	20041001
CA2541327 C	20120710	CA20042541327	20041001
CN100457871 C	20090204	CN200480029198	20041001
CN1863892 A	20061115	CN200480029198	20041001
DE602004024430 D1	20100114	DE200460024430T	20041001
EP1670882 A2	20060621	EP20040794109	20041001
EP1670882 A4	20070606	EP20040794109	20041001
EP1670882 B1	20091202	EP20040794109	20041001
ES2337692 T3	20100428	ES20040794109T	20041001
IN01484DN2006 A	20120203	IN2006DN01484	20060320
IN268553 B	20150904	IN2006DN01484	20060320
MY146032 A	20120615	MY20040004090	20041006
US2005081436 AA	20050421	US20040956856	20041001
US7635398 BB	20091222	US20040956856	20041001
WO05037969 A2	20050428	WO2004US32637	20041001
WO05037969 A3	20060209	WO2004US32637	20041001
ZA200602841 A	20070627	ZA20060002841	20060406

Priority:

US20030509959P 20031008

US20030509959P 20031009

US20040956856 20041001

WO2004US32637 20041001

Probable Assignee: DALLAS GROUP OF AMERICA INC**Assignee(s):** (std): ABRAMS CHRISTOPHER ; BERTRAM BRYAN ; COOKE BRIAN S ; DALLAS GROUP AMERICA INC ; DALLAS GROUP OF AMERICA INC ; THE DALLAS GROUP OF AMERICA INC**Assignee(s):** JPMORGAN CHASE BANK NATIONAL ASSOCIATION**Inventor(s):** (std): ABRAMS CHRISTOPHER ; BERTRAM BRYAN ; BERTRAM BRYAN ABRAMS CHRISTOPH ; BRYAN BERTRAM ; CHRISTOPHER ABRAMS ; COOKE BRAIN S ; COOKE BRIAN ; COOKE BRIAN S ; BRIAN COOKE**Inventor(s):** BRIAN S COOKE ; BERTRAM BRYAN ABRAMS CHRISTOPHER COOKE BRIAN S ; BRAIN S COOKE**Agent(s):** SPRUSON AND FERGUSON; SMART AND BIGGAR; WALCHER ARMIN; RAYMOND J LILLIE ESQ C O CARELLA BYRNE BAIN GILFILLAN; ELLIOT M; RAYMOND J**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

Title: METHOD FOR SEPARATING SATURATED AND UNSATURATED FATTY ACID ESTERS AND USE OF SEPARATED FATTY ACID ESTERS

Abstract: A method for treating a fatty acid methyl ester. The method can include mixing the fatty acid methyl ester with an amount of urea and an amount of alcohol to make (i) a urea/fatty acid methyl ester ratio of from about 0 wt/wt to about 1 wt/wt and (ii) an alcohol/fatty acid methyl ester ratio of from about 4 vol/wt to about 8 vol/wt, heating the fatty acid methyl ester/urea/alcohol mixture to a temperature at which a homogenous mixture is obtained, cooling the fatty acid methyl ester/urea/alcohol mixture to a temperature where a solid phase and a liquid phase are formed, and separating the solid phase from the liquid phase.

Classifications:

International (IPC 8-9): C07C51/43 C10L1/02 C10L1/18 C10L1/19 (Advanced/Invention);

C07C51/42 C10L1/00 C10L1/10 (Core/Invention)

International (IPC 1-7): A61K7/00 C07C51/43 C10L1/18

CPC: C10G2300/1011 C11B7/0083 C11C3/003 Y02P30/20

C10L1/026 C10L1/19 Y02E50/13 C07C67/52

European: C10L1/02D C10L1/19 C11B7/00D C11C3/00B

M10G300/10B Y02E50/13

US: 424/401 424/401P 44/385 44/385P 44/385S 554/186 554/186S

PatBase - US2005232956_AA

Patent Application Publication Oct. 20, 2005 Sheet 1 of 4 US 2005/0232956 A1

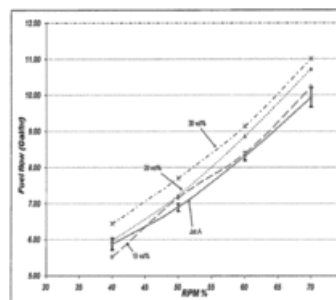


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
US2005232956 AA	20051020	US20050068104	20050228
US2007251141 AA	20071101	US20070690540	20070323
US2009199462 AA	20090813	US20080261806	20081030

Priority:

US20040547992P 20040226 US20050068104 20050228 US20070668865 20070130
US20070690540 20070323 US20080261806 20081030

Probable Assignee: PURDUE RESEARCH FOUNDATION

Assignee(s): (std): BIST SHAILENDRA ; MOHTAR SAMIA ; PURDUE RESEARCH FOUNDATION ; TAO BERNARD Y

Inventor(s): (std): TAO BERNARD Y ; MOHTAR SAMIA A ; BIST SHAILENDRA ; MOHTAR SAMIA

Inventor(s): TAO BERNARD

Agent(s): BAKER AND DANIELS LLP; BOSE MCKINNEY AND EVANS LLP

Title: PROCEDIMIENTO PARA LA OBTENCION DE COMUSTIBLE PARA MOTORES DE CICLO DIESEL A PARTIR DE ACEITES VEGETALES USADOS.

Abstract: The method involves performing trans-esterification process using triglyceride on used vegetable oils, obtained from fried food, in predetermined pressure and temperature conditions to obtain methyl ester compounds. The obtained methyl ester compounds are then neutralized and purified.

Classifications:

International (IPC 8-9): C07C67/02 C07C67/03 C07C69/003 C10L1/02 C10L1/18 C11B13/00 C11C3/04 C11C3/10 (Advanced/Invention); C07C67/00 C07C69/00 C10L1/00 C10L1/10 C11B13/00 C11C3/00 (Core/Invention)

International (IPC 1-7): C07C67/02 C07C67/03 C07C69/003 C07C69/3 C10L1/18 C11B13/00 C11C3/04 C11C3/10

CPC: Y02E50/13 Y02W30/74 C07C67/02 C07C67/03 C07C69/003 C10L1/1802 C11B13/00 C11C3/04 C11C3/10

European: Y02E50/13

Family:

Publication number	Publication date	Application number	Application date
■ ES2245270 AA	20051216	ES20050001805	20050722
■ ES2245270 BA	20060916	ES20050001805	20050722

Priority:

ES20050001805 20050722

Probable Assignee: FUNDACION CIDAUT

Assignee(s): (std): FUNDACION CIDAUT

Inventor(s): (std): TINAUT FLUIXA FRANCISCO VICEN ; BRICENO BUENO YOLANDA ; ANTOLIN GIRALDO GREGORIO

Title: SYSTEMS AND METHODS FOR ESTERIFICATION AND TRANSESTERIFICATION OF FATS AND OILS

Abstract: Esterification and transesterification of fats and oils is conducted using one or more heterogeneous solid catalysts in the presence of an alcohol and a cosolvent. In one example, esterification of free fatty acids in fats and oils feedstock is conducted by contacting the feedstock with a solid catalyst having acidic groups. Transesterification of triglycerides in the feedstock is conducted by contacting the feedstock with a solid catalyst having basic groups. Single train continuous plant designs are described for near complete conversion of fats and oils by sequentially contacting the feedstock with heterogeneous acidic solid catalyst and basic solid catalyst.

Classifications:

International (IPC 8-9): B01J8/00 B01J8/04 B01J8/08 B01J8/18 C07C51/43 C11C3/00 C11C3/04 (Advanced/Invention); B01J8/00 B01J8/04 B01J8/08 B01J8/18 C07C51/42 C11C3/00 (Core/Invention)

International (IPC 1-7): C11C3/00 C11C3/04

CPC: C07C67/03 C07C67/08 C11C3/003 C11C3/04 Y02E50/13

European: C07C67/03 C07C67/08 C11C3/00B C11C3/04 Y02E50/13

US: 422/140 422/140P 422/190 422/190S 422/192 422/192S 422/610 422/610S 422/632 422/632S 554/174 554/174P

PatBase - US2006293533_AA

Patent Application Publication Dec. 28, 2006 Sheet 1 of 2 US 2006/0293533 A1

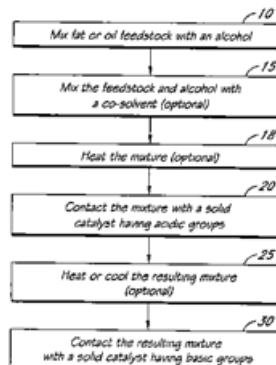


FIG. 1

Family:

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AU2006254851 AA	20061214	AU20060254851	20060609
CA2611347 AA	20071206	CA20062611347	20060609
CN101223264 A	20080716	CN200680022924	20060609
EP1907520 A1	20080409	EP20060772821	20060609
IN02121MN2007 A	20080201	IN2007MN02121	20071214
RU2007145596 A	20090720	RU20070145596	20060609
US2006293533 AA	20061228	US20060450781	20060609
US2010202933 AA	20100812	US20100763120	20100419
US7700793 BB	20100420	US20060450781	20060609
WO06133437 A1	20061214	WO2006US22665	20060609

Priority:

US20050688818 20050609 US20050688818P 20050609 US20050727893P 20051018
 US20060450781 20060609 WO2006US22665 20060609 US20100763120 20100419

Probable Assignee: TARTAN ENGINEERING LTD

Assignee(s): (std): BIOSPHERE ENVIRONMENTAL ENERGY ; IYER SATISH R ; IYER SATISH RAMNATHAN

Assignee(s): TARTAN ENGINEERING LTD ; BIOSPHERE ENVIRONMENTAL ENERGY LLC

Inventor(s): (std): IYER SATISH R ; IYER SATISH RAMNATHAN ; RAMNATHAN IYER SATISH

Inventor(s): SATISH RAMNATHAN IYER ; IYER SATISH

Agent(s): GRIFFITH HACK; ROBIC; BOHMANN ARMIN K; KNOBBE MARTENS OLSON AND BEAR 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 KM KN KP KR KZ 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 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: METHOD OF PRODUCING A FATTY ACID ALKYL ESTER, AND FUEL

Abstract: A method of producing a fatty acid alkyl ester, containing: conducting an transesterification reaction of an oil or/and fat with a straight-chain or branched alcohol having 1 to 4 carbon atoms, in the presence of a phosphoric acid alkali-metal salt; and a fuel containing the fatty acid alkyl ester produced by the method in a given ratio.

Classifications:

International (IPC 8-9): C07C51/353 C07C57/00 C07C67/03 C07C69/24 C07C69/52 C10L1/02 C10L1/08 C10L1/19

C11C3/00 C11C3/04 C11C3/10 (Advanced/Invention);

C07B61/00 C10L1/02 (Advanced/Non-invention);

C07C51/347 C07C57/00 C07C67/00 C07C69/00 C10L1/00 C10L1/10 C11C3/00 (Core/Invention);

C07B61/00 C10L1/00 (Core/Non-invention)

CPC: C10L1/02 C10L1/19 C11C3/003 Y02E50/13

European: C10L1/02 C10L1/19 C11C3/00B Y02E50/13

US: 44/388 44/388P 554/125 554/125S 554/223 554/223S

Family:

Publication number	Publication date	Application number	Application date
AT550414 E	20120415	AT20060798111T	20060913
CN101351535 A	20090121	CN200680033771	20060913
DE602006028351 D1	20120524	DE200660028351T	20060913
EP1931757 A1	20080618	EP20060798111	20060913
EP1931757 A4	20091104	EP20060798111	20060913
EP1931757 B1	20120321	EP20060798111	20060913
JP2007077347 A2	20070329	JP20050269756	20050916
JP2009013425 A2	20090122	JP20080239658	20080918
JP4219349 B2	20090204	JP20050269756	20050916
JP4876111 B2	20120215	JP20080239658	20080918
MY145175 A	20111230	MY20080000628	20060913
US2009107034 AA	20090430	US20060067143	20060913
WO07032538 A1	20070322	WO2006JP318550	20060913

Priority:

JP20050269756 20050916
WO2006JP318550 20060913

EP20060798111 20060913
JP20080239658 20080918

WO2006JP18550 20060913

Probable Assignee: FUJIFILM HOLDINGS CORP

Assignee(s): (std): FUJI PHOTO FILM CO LTD ; FUJIFILM CORP ; FUJIFILM HOLDINGS CORP ; FUKUNAGA HIROFUMI

Assignee(s): FUJIFILM TOKIO TOKYO CORP

Inventor(s): (std): FUKUNAGA HIROFUMI ; HIROFUMI FUKUNAGA

Inventor(s): FUKUNAGA HIROFUMI ASHIGARAKAMI GUN

Agent(s): HOFFMANN EITLE PATENT U RECHTSANWALTE PARTMBB; HOFFMANN EITLE; SUGHRUE MION PLLC

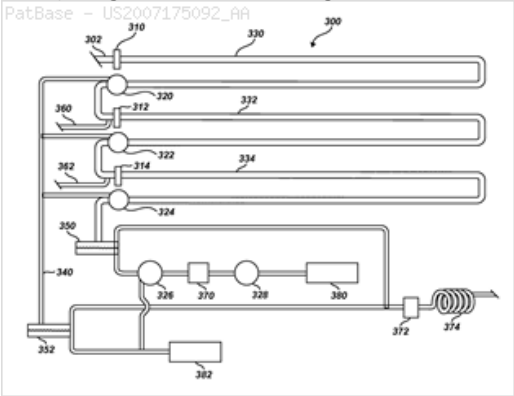
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Title: CONTINUOUS FLOW BIODIESEL PROCESSOR

Abstract: A continuous flow biodiesel processor utilizing high turbulence mixing of oil being processed and a flow-through separation tank with distinct zones and recirculation draw tubes is described, along with methods for using same.

Classifications:

International (ipc 8-9): B01D17/00 B01F7/00 B01J19/00 B01J19/18 B01J8/00 C07C59/00 C10L1/02 C10L5/00 (Advanced/Invention); B01D17/00 B01F7/00 B01J19/00 B01J19/18 B01J8/00 C07C59/00 C10L1/00 C10L5/00 (Core/Invention)
CPC: B01D17/0211 B01D63/025 B01F7/00766 B01F7/00808 B01J19/1806 B01J19/1818 B01J19/242 B01J19/26 B01J2219/00006 B01J2219/0009 B01J2219/00765 B01J2219/185 B01J2219/1943 B01J2219/1946 C10L1/026 C11C3/003 Y02E50/13 B01D17/0217
European: B01D17/02F2 B01D63/02F B01J19/18B B01J19/18C2 B01J19/24D2 B01J19/26 C10L1/02D C11C3/00B L01F7/00G1A L01F7/00G2A L01J219/00A2B L01J219/00B2D4B L01J219/00D2B L01J219/18D L01J219/194B4 L01J219/194B8 Y02E50/13
US: 44/629 44/629P



Family:

Publication number	Publication date	Application number	Application date
US2007175092 AA	20070802	US20060563680	20061127
WO07062276 A2	20070531	WO2006US45743	20061128
WO07062276 A3	20090423	WO2006US45743	20061128

Priority:

US20050740346P 20051128 US20060563680 20061127

Probable Assignee: AMES RANDALL

Assignee(s): (std): AMES RANDALL ; AMES RANDALL S

Inventor(s): (std): AMES RANDALL ; AMES RANDALL S

Agent(s): WESLEY B AMES; AMES WESLEY

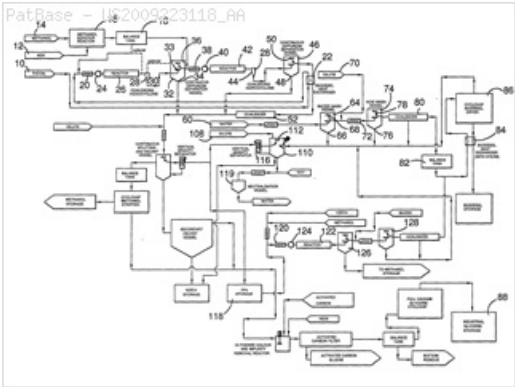
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Title: METHOD AND APPARATUS FOR MANUFACTURING AND PURIFYING BIO-DIESEL

Abstract: A process for producing bio-diesel is described in which a consolidator in the form of a hydrocyclone is located between the processor or reactor and a separator to improve the efficiency of the overall formation of bio-diesel. The present of the consolidator in which the major constituents of the bio-diesel is in one part or in one flow both within the consolidator and the by-products are in another part of flowpath within the consolidator acts to condition the mixture from the processor so that more efficient separation can take place in the separator thereby reducing the time taken to achieve separation of the bio-diesel component from the by-product.

Classifications:

International (IPC 8-9): C07C67/02 C10G3/00 B01J19/00
C07C67/03 C10L1/02 C10L1/18 C11C1/08
C11C3/00 (Advanced/Invention);
B01J19/00 C07C67/00 C10L1/10 (Core/Invention)
International (IPC 1-7): C07C67/00 C07C67/02 C10L1/00
CPC: B01J2219/00006 C07C67/03 C11C1/08 C11C3/003 Y02E50/13
European: C07C67/03 C11C1/08 C11C3/00B L01J219/00A2B
Y02E50/13
US: 422/189 422/189S 422/600 422/600S 44/308 44/308P



Family:

Publication number	Publication date	Application number	Application date
AR057956 AA	20071226	AR2006P105311	20061201
AU2006319762 AA	20070607	AU20060319762	20061201
CA2632499 AA	20080530	CA20062632499	20061201
EP1968930 A1	20080917	EP20060817573	20061201
PA8704501 A1	20090723	PA20060087045	20061201
TH96557 A	20090709	TH20061006014	20061201
TW200740982 A	20071101	TW20060144796	20061201
US2009223118 AA	20090910	US20060095872	20061201
WO07062480 A1	20070607	WO2006AU01827	20061201

Priority:

US20050597444P 20051202 US20060095872 20061201 WO2006AU01827 20061201

Probable Assignee: ACQUA INT GROUP INC

Assignee(s): (std): ACQUA INT GROUP INC ; ACQUA INTERNAT GROUP INC ; EVERTON MICHAEL ; MCGUIRE STEVEN SCOTT ; MCKENZIE DAVID WEST

Assignee(s): ACQUA INTERNATIONAL GROUP INC

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Inventor(s): STEVEN SCOTT MCGUIRE

Agent(s): GRIFFITH HACK; OYEN WIGGS GREEN AND MUTALA LLP; ANDERSSON BJOERN E ET AL; STANDLEY LAW GROUP 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 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

Title: BIODIESEL PRODUCTION METHOD AND APPARATUS

Abstract: Methods and apparatus for the production of biodiesel are provided. The methods involve converting a fatty acid rich material to biodiesel using a homogeneous catalyst, followed by electrodialysis of the resulting product to remove the catalyst.

Classifications:

International (IPC 8-9): C07C67/08 C10L1/00 C10L1/08 C10L1/18

C10L1/19 C11B3/00 (Advanced/Invention);

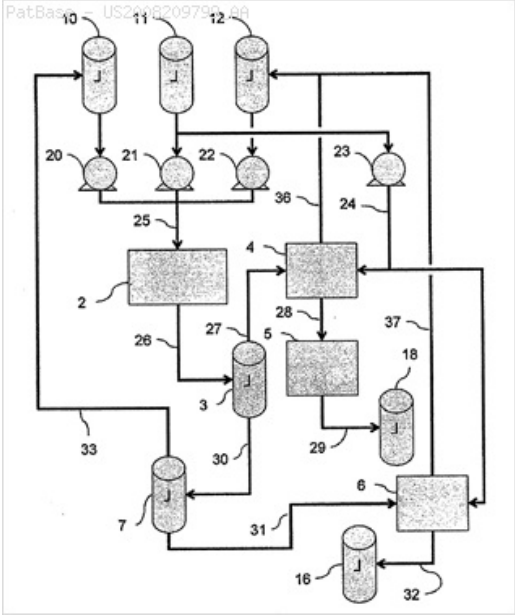
C10L1/10 C11B3/00 (Core/Invention)

CPC: Y02P30/20 C11C3/003 C10G2300/1011 Y02E50/13

European: C11C3/00B M10G300/10B Y02E50/13

US: 44/307 44/307P 44/308 44/385 44/388 44/411 44/411P 554/170

554/170S



Family:

Publication number	Publication date	Application number	Application date
US2008209799 AA	20080904	US20080027979	20080207
US2011113677 AA	20110519	US20110013799	20110125
US7905931 BB	20110315	US20080027979	20080207
WO08100798 A1	20080821	WO2008US53359	20080207

Priority:

US20070900645P 20070209 US20080027979 20080207 US20110013799 20110125

Probable Assignee: PRIMAFUEL INC

Assignee(s): (std): PORTER BROOK ; PRIMAFUEL INC ; WOODS RICHARD R

Assignee(s): I2BF BIODIESEL LTD ; I2BF BIODIESEL LTD C O I2BF VENTURE CAPITAL

Inventor(s): (std): PORTER BROOK ; WOODS RICHARD R

Agent(s): KNOBBE MARTENS OLSON AND BEAR LLP; LAW OFFICE OF JOSEPH M KOBZEFF; DELANEY KAROLINE A

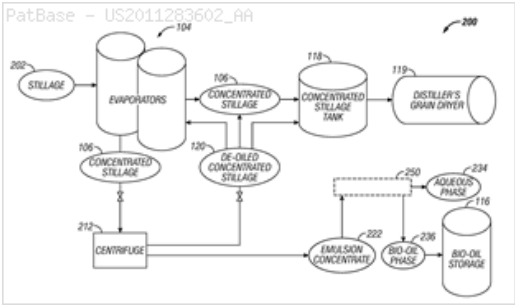
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Title: BIO-OIL RECOVERY SYSTEMS AND METHODS

Abstract: An emulsion-breaking additive is combined with an emulsion concentrate to yield a reaction product and the emulsion concentrate is produced in a process stream and contains entrapped bio-oil. Subsequent phase separating can be accomplished with gravity separation and/or mechanical processing. The emulsion-breaking additive can be native to the process stream. Related systems and methods are also provided.

Classifications:

International (IPC 8-9): A23K10/37 A23K10/38 A23K50/10 B01D1/00 B01D11/00 B01D17/00 B01D17/02 B01D17/04 B01D21/00 B01D3/00 B01J19/00 B01J8/00 C07C31/02 C10G3/00 C10L1/00 C10L1/02 C10L1/18 C10L1/26 C10L5/44 C11B13/00 C11B3/08 C11B3/16 C12F3/10 C13B20/16 (Advanced/Invention)
CPC: B01D17/048 B01D21/262 B01D1/00 B01D17/0217 C10L1/1802 C10G2300/1014 C10G2300/1018 C10G2300/44 C10L1/026 C11B3/08 C11B3/16 B01D17/0208 C12F3/10 C11B13/00 A23K10/37 A23K10/38 A23K50/10 Y02E50/10 Y02E50/30 Y02P30/20
European: C11B3/08 C11B3/16
US: 159/47.3 203/39 210/180 210/634 210/708 210/774 210/787 210/804 210/806 252/183.11 422/187 422/187P 422/187S 424/439 426/115 426/2 426/482 426/53 426/623 426/635 435/255.1 44/302 44/307 44/307P 44/308 44/436 44/451 44/589 44/605 554/1 554/175 554/20 554/21



Family:

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US20110292266 20111109	CA20122780589 20120621	WO2012US43604 20120621
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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 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