

15-263099

3er examen de fondo.

Search history

Search 1: PN=(FR2981659 OR US2013026074 OR US2988501 OR US4732664 OR WO2005104749 OR US4933086 OR US4317711 OR CA2754376)
(Results 8)

Title: HYDROREFINING OF CRUDE OILS

Abstract: Source: US2988501A (Claim 1) 1. In a process wherein a relatively hydrogen-lean crude oil feedstock is subjected to catalytic hydrotreating at elevated temperatures with consumption of hydrogen to produce a relatively hydrogen-lean refined liquid product, the improved method for reducing the deposition of solid carbonaceous matter in the hydrotreating zone, which comprises blending said feedstock with a recycled portion of said refined liquid product, said recycled portion boiling predominantly above about 350 degrees F., then subjecting the resulting blend to settling conditions at a temperature in excess of 100 degrees F. for a sufficient length of time to effect a liquid-liquid phase separation and separating therefrom a minor, heavy asphalt-rich liquid phase and a major asphalt-lean liquid phase, heating said asphalt-lean phase to a hydrotreating temperature, and subjecting the heated oil to catalytic hydrotreating at a temperature between about 600 degrees and 900 degrees F. in the presence of added hydrogen.

Classifications:

International (IPC 8-9): C10G67/04 (Advanced/Invention);
C10G67/00 (Core/Invention)

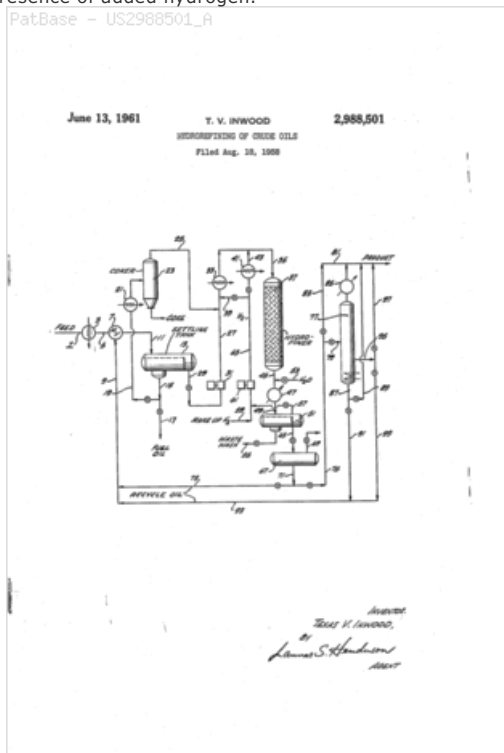
International (IPC 1-7): C10B55/00 C10G23/02

CPC: C10G67/0463

European: C10G67/04F2

US: 208/211 208/216R 208/251H 208/254H 208/39

PatBase - US2988501_A

**Family:**

Publication number	Publication date	Application number	Application date
US2988501 A	19610613	US19580755579	19580818

Priority:

US19580755579 19580818

Probable Assignee: UNION OIL CO

Assignee(s): (std): UNION OIL CO

Assignee(s): UNION OIL CO OF CALIFORNIA ; UNION OIL COMPANY OF CALIFORNIA

Inventor(s): (std): INWOOD TEXAS V

Title: Coprocessing of residual oil and coal

Abstract: Source: US4317711A This invention provides a method for coprocessing of residual oil and coal which in one embodiment involves the steps of (1) visbreaking a slurry of heavy hydrocarbon oil and finely divided coal; (2) deasphalting the visbroken admixture to provide a solvent-oil fraction and a precipitated asphaltic solids fraction; (3) stripping the deasphalting solvent from the oil fraction to yield demetallized liquid hydrocarbon product; and (4) treating the asphaltic solids fraction under flotation conditions in an aqueous medium to recover a float phase of organic solids product.

Classifications:

International (IPC 8-9): C10G1/06 C10G25/00 C10G47/22

C10G47/26 C10G47/30 C10G55/04 C10G69/02 C10G9/00

C10G9/32 (Advanced/Invention);

C10G1/00 C10G47/00 C10G55/00 C10G69/00

C10G9/00 (Core/Invention)

International (IPC 1-7): C10B55/02 C10G1/00 C10G1/04 C10G1/06

C10G17/00 C10G21/14 C10G21/28 C10G25/00 C10G25/06

C10G25/12 C10G3/00 C10G45/00 C10G45/02 C10G47/22

C10G47/26 C10G65/12 C10G65/14 C10G67/04 C10G9/00 C10L9/00

CPC: C10G1/065 C10G9/007 C10G2300/107

European: C10G1/06B C10G47/22 C10G47/26 C10G47/30

C10G55/04 C10G69/02 C10G9/00V C10G9/32 M10G300/10H

US: 208/106 208/107 208/126 208/208R 208/209 208/211 208/251H

208/251R 208/424 208/425 208/430 208/434 208/50 208/8LE 208/97

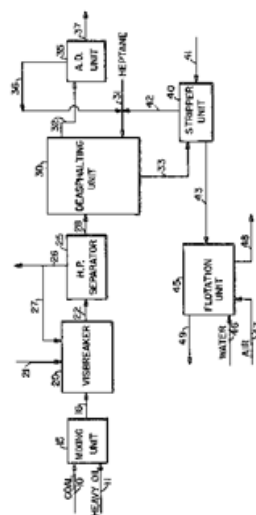
423/150.1 423/64 423/68 75/330 75/622 75/628

PatBase - US4317711_A

U.S. Patent

Mar. 2, 1982

4,317,711



Family:

Publication number	Publication date	Application number	Application date
AU198174648 A1	19820318	AU19810074648	19810826
CA1164381 A1	19840327	CA19810384194	19810819
DE3169549 D1	19850502	DE19813169549	19810826
EP0048098 A2	19820324	EP19810303895	19810826
EP0048098 A3	19820630	EP19810303895	19810826
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JP57080484 A2	19820520	JP19810142543	19810911
US4317711 A	19820302	US19800186927	19800912
US4334976 A	19820615	US19810224778	19810113
US4481101 A	19841106	US19820411141	19820825
US4544479 A	19851001	US19830556808	19831201

Priority:

CA19810384194 19810819 US19800186927 19800912 US19820340661 19820119
 US19820411141 19820825 US19830556808 19831201 US19810224778 19810113

Probable Assignee: MOBIL OIL CORP

Assignee(s): (std): MOBIL OIL CORP ; MOBIL OIL

Assignee(s): MOBIL OIL A CORP CORP ; MOBIL OIL A CORP OF NY CORP ; TECHNICARE CORP ; TECHNICARE AN OH CORP CORP ; YAN TSOUNG YUAN

Inventor(s): (std): YAN TSOUNG YUAN ; TSUANGU YUAN YAN ; YAN TSOUNG Y

Inventor(s): TSOUNG YUAN YAN

Agent(s): PHILLIPS ORMONDE FITZPATRICK; KIRBY EADES GALE BAKER

Designated states: BE DE FR GB IT NL

Title: Process for solid separation from hydroprocessing liquid product

Abstract: Source: US4732664A A process for separating finely divided solid particles from a hydroprocessing liquid product which comprises treating a heavy hydrocarbon feed having an asphaltene content of at least 1 weight percent so as to obtain an unstable product characterized by heavy molecular weight molecules which promote the agglomeration of said finely divided solid particles and thereafter feeding said unstable product to a precipitating zone provided with a centrifugal decanter for precipitating the agglomerated solid particles and said heavy molecular weight molecules in said precipitating zone wherein at least 80 weight percent of the finely divided solid particles is recovered.

Classifications:

International (IPC 8-9): C 10G21/00 C 10G31/06 C 10G31/10

C10G67/02 (Advanced/Invention);

C10G21/00 C10G31/00 (Core/Invention)

International (IPC 1-7): B03B5/28 B03D3/02 C10G29/02 C10G29/06

C10G29/16 C10G31/06 C10G31/10 C10G67/02

CPC: C10G21/003 C10G31/06 C10G31/10

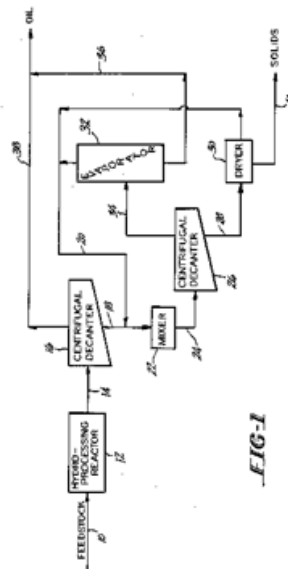
European: C10G21/00A C10G31/06 C10G31/10

US: 208/112 208/162 208/177 208/212 208/96 208/97 210/730

210/738

PatBase - US4732664_A

U.S. Patent Mar. 22, 1988 Sheet 1 of 2 4,732,664



Family:

Publication number	Publication date	Application number	Application date
CA1257214 A1	19890711	CA19850495359	19851114
DE3541465 A1	19860807	DE19853541465	19851123
DE3541465 C2	19881229	DE19853541465	19851123
US4732664 A	19880322	US19840674874	19841126

Priority:

CA19850495359 19851114 US19840674874 19841126

Probable Assignee: INTEVEP SA

Assignee(s): (std): INTEVEP SA

Assignee(s):

INTEVEP SA APARTADO 76343 ; MARTINI RODOLFO B SOLARI ; LOPEZ JOSE GUITIAN ; MARZIN ROGER ; KRASUK JULIO H ; GOLDING JOSE V RODRIGUEZ ; INTEVEP APARTADO 76343 SA ; INTEVEP S A ; INTEVEP S A CARACAS VE

Inventor(s): (std):

GUIITIAN LOPEZ JOSE ; KRASUK JULIO H ; MARZIN ROGER ; RODRIGUEZ GOLDING JOSE V ; SOLARI MARTINI RODOLFO B ; MARTINI RODOLFO B SOLARI ; LOPEZ JOSE GUIITIAN ; GOLDING JOSE V RODRIGUEZ

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Agent(s):

OGILVY RENAULT LLP SENCRL SRL

Title: HYDROPROCESSING METHOD AND SYSTEM FOR UPGRADING HEAVY OIL USING A COLLOIDAL OR MOLECULAR CATALYST

Abstract: Source: US2005241993A Methods and systems for hydroprocessing heavy oil feedstocks to form an upgraded material involve the use of a colloidal or molecular catalyst dispersed within a heavy oil feedstock, a hydrocracking reactor, and a hot separator. The colloidal or molecular catalyst promotes hydrocracking and other hydroprocessing reactions within the hydrocracking reactor. The catalyst is preferentially associated with asphaltenes within the heavy oil feedstock, which promotes upgrading reactions involving the asphaltenes rather than formation of coke precursors and sediment. The colloidal or molecular catalyst overcomes problems associated with porous supported catalysts in upgrading heavy oil feedstocks, particularly the inability of such catalysts to effectively process asphaltene molecules. The result is one or more of reduced equipment fouling, increased conversion level, and more efficient use of the supported catalyst if used in combination with the colloidal or molecular catalyst.

Classifications:

International (IPC 8-9): B01F13/00 B01F15/02 B01F15/04 B01F3/14 B01F5/06 B01J19/00 B01J27/047 B01J27/051 B01J35/00 B01J37/00 B01J37/02 B01J37/04 B01J37/08 B01J37/20 B01J38/00 B01J8/00 C10C1/00 C10G11/00 C10G45/00 C10G45/04 C10G47/00 C10G47/02 C10G47/06 C10G47/24 C10G47/26 C10G49/04 C10G65/02 C10G65/10 C10G65/12 (Advanced/Invention); B01J38/68 (Advanced/Non-invention); C10G47/00 (Core/Invention)

International (IPC 1-7): B01F3/14 B01J27/047 B01J27/051 C10G47/02 C10G47/24 C10G47/26 C10G65/02 C10G65/10 C10G47/26 C10G2300/1033 C10G2300/107 C10G2300/1077 C10G2300/802 C10G47/00 B01F3/088 B01F2003/105 B01J8/0015 B01J27/047 B01J27/051 B01J35/0013 B01J37/02 B01J37/086 B01J38/00 B01J38/68 B01J2208/00752 C10G45/00 C10G49/04 C10G65/02 C10G65/12 C10G47/02 C10G65/10 C10G45/04 B01F3/14 B01J37/00

European: B01F3/08P B01J27/047 B01J27/051 B01J35/00C B01J37/02 B01J37/08B4 B01J38/00 B01J8/00F C10G45/00 C10G47/00 C10G47/26 C10G49/04 C10G65/02 C10G65/12 L01F3/10B L01J208/00F2 L01J38/68

US: 208/108 366/141 366/141P 366/190 366/190S 366/336 366/336S 366/342 366/342S 422/187 422/224 422/224S 422/225 422/225S

PatBase - US2005241993_AA

Patent Application Publication Nov. 3, 2005 Sheet 1 of 26 US 2005/0241993 A1

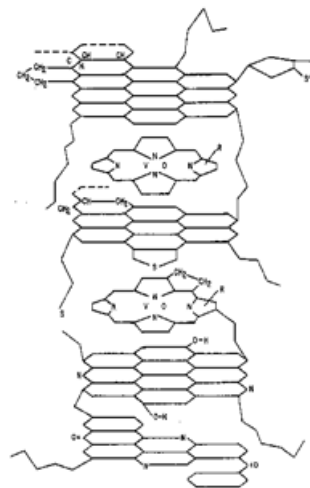


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
BRPI0510304 A	20071002	BR2005PI10304	20050428
CA2564342 AA	20061026	CA20052564342	20050428
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EP1999233 A4	20110413	EP20070758375	20070312
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EP2272938 B1	20150819	EP20100174815	20050428
EP2272938 B9	20151230	EP20100174815	20050428
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EP2813562 A1	20141217	EP20140171297	20050428
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IN258912 B	20140221	IN2006DN05922	20061011
JP2007535603 T2	20071206	JP20070510923T	20050428
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KR101227271 B1	20130128	KR20067022515	20050428
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TWI360571 B	20120321	TW20070108263	20070309
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US2006201854 AA	20060914	US20060374369	20060313
US2009310435 AA	20091217	US20090547278	20090825
US7578928 BB	20090825	US20050117262	20050428
WO05104749 A2	20051110	WO2005US14411	20050428
WO05104749 A3	20060105	WO2005US14411	20050428
WO07106783 A2	20070920	WO2007US63819	20070312
WO07106783 A3	20071122	WO2007US63819	20070312

Priority:

EP20050739913	20050428	EP20070758375	20070312	EP20100174815	20050428
US20060374369	20060313	WO2005US14411	20050428	US20040566345	20040428
US20090547278	20090825	US20050117262	20050428	US20040566345P	20040428
WO2007US63819	20070312				

Probable Assignee: HEADWATERS HEAVY OIL LLC

Assignee(s): (std): HEADWATERS HEAVY OIL LLC ; KHEH DUOTERS KHEHVI OJL EHLEHLSI ; LOTT ROGER K ; KHEDUOTERS KHEHVI OJL LLS

Assignee(s): WILMINGTON TRUST FSB COLLATERAL AGENT AS ; DEUTSCHE BANK NEW YORK BRANCH ADMINISTRATIVE AGENT AG AS ; LEE LAP KEUNG ; HEADWATERS RESOURCES INC A UTAH CORP ; HEADWATERS TECHNOLOGY INNOVATION GROUP INC A UTAH CORP ; TAPCO INT A MICHIGAN CORP ; HEADWATERS RESOURCES INC ; TAPCO INT CORP ; HEADWATERS HEAVY OIL LLC A UTAH CORP ; HEADWATERS HEAVY OIL LLC SOUTH JORDAN ; HEADWATERS INC ; HEADWATERS INC GRANTOR AS

Inventor(s): (std): KEUNG LOTT ROGER K LEE LAP ; LEE LAP KEUNG ; LI LAP KEUNG ; LOTT RODZHER K ; LOTT ROGER K ; ROGER K LOTT

Inventor(s): LOTT ROGER ; LOTT ROGER K EDMONTON ; LI LAP-KEUNG ; LEE LAP KEUNG WEST WINDSOR ; LAP KEUNG LEE

Agent(s): CASSAN MACLEAN; SMART AND BIGGAR; ADAM HOLGER; ADAM HOLGER ET AL; LEHMANN MARIA ISABEL; WORKMAN NYDEGGER, (F/K/A WORKMAN NYDEGGER AND SEELEY); WORKMAN NYDEGGER F K A WORKMAN NYDEGGER AND SEELEY; WORKMAN NYDEGGER,1000 EAGLE GATE TOWER; WORKMAN NYDEGGER 1000 EAGLE GATE TOWER; WORKMAN NYDEGGER

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 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

Title: PROCESS FOR STABILIZATION OF HEAVY HYDROCARBONS

Abstract: Source: US2013026074A A process for stabilization of heavy hydrocarbons to reduce sludge formation in storage tanks and/or transportation lines and to enhance the hydrocarbon yield includes mixing a paraffinic or heavy naphtha solvent having carbon numbers in the range 10 to 20 with the feedstock to solvent-flocculate a relatively small, predetermined portion of asphaltenes present in the feedstock, separating and flashing the sediment to recover a light hydrocarbon fraction, flashing the heavy hydrocarbon/solvent phase and recycling the solvent to stabilize the heavy hydrocarbons without significantly affecting the yield of valuable products.

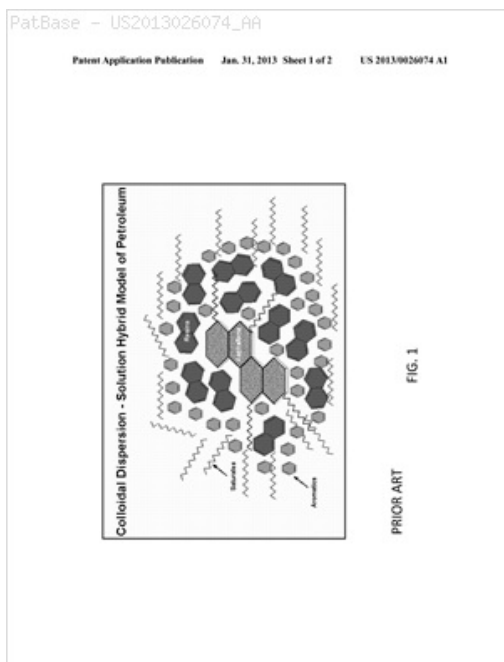
Classifications:

International (IPC 8-9): B01D21/01 C10C3/08 C10G1/00
C10G21/00 C10G21/14 C10G21/28 C10G31/00

C10G31/06 (Advanced/Invention)

CPC: C10G21/14 C10G2300/107 C10G2300/1077 C10G2300/206
C10G2300/4075 C10G2300/44 C10G21/003 C10G1/002 C10G21/28
C10G31/06 C10G31/00 B01D21/01 C10G21/00

US: 208/309



Family:

Publication number	Publication date	Application number	Application date
CN103827267 A	20140528	CN201280046760	20120719
EP2737021 A2	20140604	EP20120738380	20120719
JP2014524483 T2	20140922	JP20140522887T	20120719
JP6073882 B2	20170201	JP20140522887T	20120719
KR20140064802 A	20140528	KR20147005135	20120719
US2013026074 AA	20130131	US20120553236	20120719
US9493710 BB	20161115	US20120553236	20120719
WO13019418 A2	20130207	WO2012US47328	20120719
WO13019418 A3	20131010	WO2012US47328	20120719

Priority:

US20110513457P 20110729 US20120553236 20120719 WO2012US47328 20120719

Probable Assignee: SAUDI ARABIAN OIL CO

Assignee(s): (std): AL HAJJI ADNAN ; KOSEOGLU OMER REFA ; SAUDI ARABIAN OIL CO

Assignee(s): SAUDI ARABIAN OIL COMPANY

Inventor(s): (std): AL HAJJI ADNAN ; KOSEOGLU OMER REFA

Agent(s): GERVASI GEMMA; MORIZUMI KEN ICHI; TANAKA MITSUO; YAMADA TAKUJI; ABELMAN FRAYNE AND SCHWAB; SPATH THOMAS E

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

Title: SOLVENT DE-ASPALTING WITH CYCLONIC SEPARATION

Abstract: Source: CA2754376A The present invention relates to a method of improving a heavy hydrocarbon, such as bitumen, to a lighter more fluid product and, more specifically, to a final hydrocarbon product that is refinery-ready and meets pipeline transport criteria without the addition of diluent. A solid asphaltene by-product is created for easy handling and further processing. The invention is targeted to enhance Canadian bitumen, but has general application in improving any heavy hydrocarbon.

Classifications:

International (IPC 8-9): C10C3/00 C10G1/04 (Advanced/Invention)

CPC: C10G67/049 C10G21/003

Family:

Publication number	Publication date	Application number	Application date
CA2754376 AA	20130330	CA20112754376	20110930

Priority:

CA20112754376 20110930

Probable Assignee: MEG ENERGY CORP

Assignee(s): (std): MEG ENERGY CORP

Assignee(s): REMESAT DARIUS ; KEARNS JIM520 - 3RD AVENUE SW11TH FLOORCALGARYA1T2P 0R3CA ; HOCKING DAMIEN520 - 3RD AVENUE SW, 11TH FLOORCALGARYA1T2P 0R3CA ; MEG ENERGY CORP520 -3RD AVENUE SW 11THCALGARYA1T2P 0R3CA ; REMESAT DARIUS520 - 3RD AVENUE SW, 11TH FLOORCALGARYA1T2P 0R3CA ; KEARNS JIM ; BRUCE GERALD ; CORSCADDEN TOM ; CORSCADDEN TOM24 STRATHCLAIR PLACE SWCALGARYA1T3H 1H1CA ; DIDUCH GREG ; DIDUCH GREG520 - 3RD AVENUE SW, 11TH FLOORCALGARYA1T2P 0R3CA ; HOCKING DAMIEN

Inventor(s): (std): BRUCE GERALD ; CORSCADDEN TOM ; DIDUCH GREG ; HOCKING DAMIEN ; REMESAT DARIUS

Inventor(s): REMESAT DARIUS520 - 3RD AVENUE SW, 11TH FLOORCALGARYA1T2P 0R3CA ; HOCKING DAMIEN520 - 3RD AVENUE SW, 11TH FLOORCALGARYA1T2P 0R3CA ; KEARNS JIM ; KEARNS JIM520 - 3RD AVENUE SW11TH FLOORCALGARYA1T2P 0R3CA ; DIDUCH GREG520 - 3RD AVENUE SW, 11TH FLOORCALGARYA1T2P 0R3CA ; CORSCADDEN TOM24 STRATHCLAIR PLACE SWCALGARYA1T3H 1H1CA

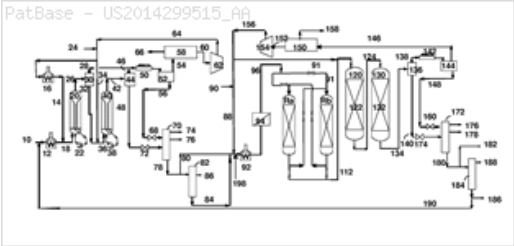
Agent(s): BENNETT JONES LLP

Title: PROCESS FOR CONVERSION OF PETROLEUM FEED COMPRISING AN EBULLATED BED HYDROCONVERSION STEP IN A FIXED BED HYDROTREATMENT STEP FOR THE PRODUCTION OF LOW SULPHUR CONTENT FUEL

Abstract: Source: US2014299515A Process for conversion of petroleum feed for production of low sulphur content fuel comprising the following steps: a step of ebullated bed hydroconversion of the feed in the presence of a supported catalyst, a separation step allowing a residual fraction to be obtained, a step of fixed bed hydrotreatment of the residual fraction using an upstream system of permutable reactors.

Classifications:

International (IPC 8-9): C10C3/02 C10G1/00 C10G45/02
C10G65/04 C10G65/12 C10G69/04 C10G69/08 (Advanced/Invention)
CPC: C10G65/12 C10G2300/107 C10G2300/1077 C10G2300/202
C10G2300/205 C10G2300/301 C10G2300/4006 C10G2300/4012
C10G2300/4018 C10G2300/701 C10G2400/02 C10G2400/04
C10G2400/08 C10G69/04 C10G69/08 C10G1/002 C10C3/023
C10G65/04
US: 208/390 208/44 208/66 208/97



Family:

Publication number	Publication date	Application number	Application date
FR2981659 A1	20130426	FR20110003218	20111020
FR2981659 B1	20131101	FR20110003218	20111020
US2014299515 AA	20141009	US20120352363	20120928
WO13057389 A1	20130425	WO2012FR00385	20120928

Priority:

FR20110003218 20111020 WO2012FR00385 20120928

Probable Assignee: IFP ENERGIES NOUVELLES

Assignee(s): (std): IFP ENERGIES NOUVELLES ; MAJCHER JEROME ; WEISS WILFRIED

Inventor(s): (std): MAJCHER JEROME ; WEISS WILFRIED

Inventor(s): WILFRIED WEISS ; JEROME MAJCHER

Agent(s): IFP ENERGIES NOUVELLES; NGUYEN JEAN PAUL

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