

PatBase - Search results 07 June 2017

Search query (1): PN=(CA2195165 OR US7943035 OR US5096566 OR US20080217211 OR US20110067308 OR US7491314 OR US5891325 OR WO1996006899)

Results: 8

16-029362

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Search history

Search PN=(CA2195165 OR US7943035 OR US5096566 OR US20080217211 OR US20110067308 OR US7491314 OR US5891325 OR
1: WO1996006899) (Results 8)

Title: Process for reducing the viscosity of heavy hydrocarbon oils

Abstract: Source: US5096566A A process is described for reducing the viscosity of heavy hydrocarbon oils which comprises separately heating a stream of heavy hydrocarbon oil and a stream of gas, mixing the hot gas and hot heavy hydrocarbon oil under pressure and immediately thereafter passing the heavy oil/gas mixture through a small nozzle or orifice such that a substantial pressure drop occurs across the orifice and the heavy oil/gas mixture is ejected from the orifice as a spray in the form of fine oil droplets entrained by highly turbulent gas flow. This spray is discharged into a confined reaction zone from which the oil of reduced viscosity is collected.

Classifications:

International (IPC 8-9): C10G47/22 C10G9/00
C10G9/36 (Advanced/Invention);

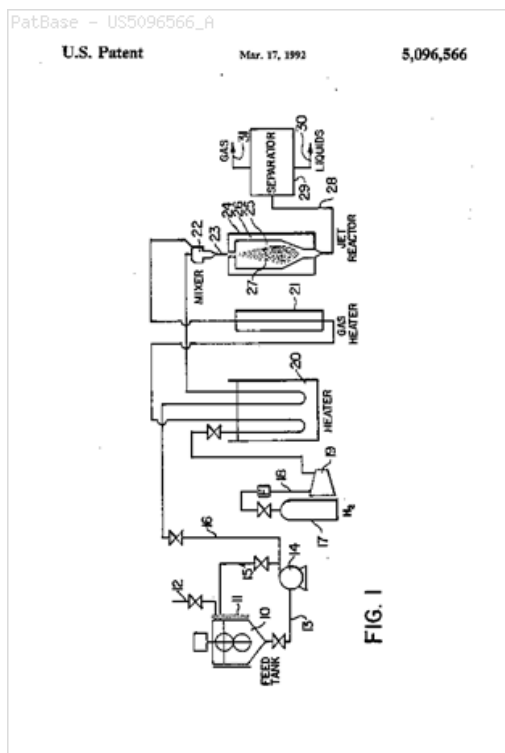
C10G47/00 C10G9/00 (Core/Invention)

International (IPC 1-7): C10G9/00 C10G9/36

CPC: C10G9/007 C10G9/36 C10G47/22

European: C10G47/22 C10G9/00V C10G9/36

US: 208/106 208/107 208/157



Family:

Publication number	Publication date	Application number	Application date
CA1306214 A1	19920811	CA19880579316	19881004
US5096566 A	19920317	US19910622616	19910211

Priority:

CA19880579316 19881004 US19890414302 19890929

Probable Assignee: UNITED KINGDOM GOVERNMENT

Assignee(s): (std): DAWSON WILLIAM H ; UNITED KINGDOM GOVERNMENT

Assignee(s): LEMONNIER JEAN PIERRE ; OVEREND RALPH P ; HER MAJESTY IN RIGHT OF CANADA REPRESENTED BY MINISTER OF NATURAL OF NATURAL RESOURCES CANADA AS ; HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF ENERGY MINES AND RESOURCES ; CHAKMA AMITABHA ; CHORNET ESTEBAN

Inventor(s): (std): CHAKMA AMITABHA ; CHORNET ESTEBAN ; DAWSON WILLIAM H ; LEMONNIER JEAN PIERRE ; OVEREND RALPH P

Agent(s): KIRBY EADES GALE BAKER

Title: Process for removing essentially naphthenic acids from a hydrocarbon oil

Abstract: Source: US6063266A PCT No. PCT/NO95/00142 Sec. 371 Date Feb. 27, 1997 Sec. 102(e) Date Feb. 27, 1997 PCT Filed Aug. 29, 1995 PCT Pub. No. WO96/06899 PCT Pub. Date Mar. 7, 1996A process for removing essentially naphthenic acids from a crude oil which has not previously been fractionated by distillation, or from which only a naphtha fraction has been distilled. The crude oil is hydrogenated at 1-50 bars and 100-300 DEG C. over a catalyst of the kind used for hydrogenation of atmospheric residue oils. As a catalyst, especially Ni-Mo or Ni-Co deposited on alumina as a carrier material is used.

Classifications:

International (IPC 8-9): C10G35/04 C10G45/08 C10G45/44 C10G45/50 (Advanced/Invention);

C10G35/00 C10G45/02 C10G45/44 (Core/Invention)

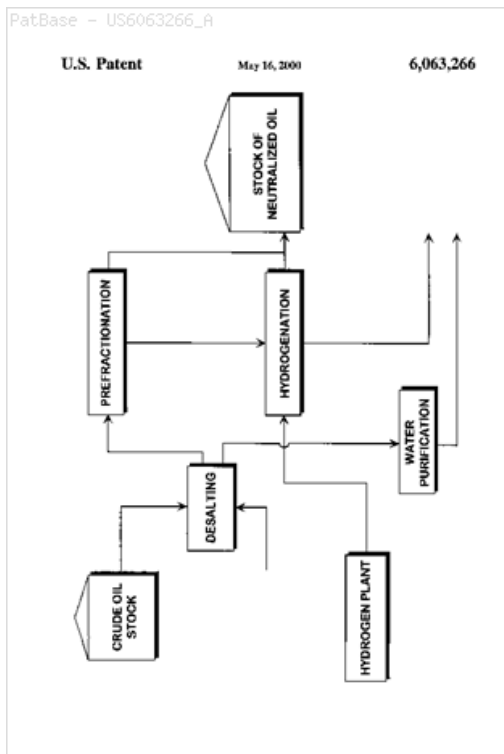
International (IPC 1-7): C10G1/00 C10G17/00 C10G35/04

C10G45/00 C10G45/08 C10G45/44 C10G45/50

CPC: C10G45/08 C10G2300/107

European: C10G45/08 M10G300/10H

US: 208/189 208/263



Family:

Publication number	Publication date	Application number	Application date
AT187197 E	19991215	AT19950932243T	19950829
AU199535346 A1	19960322	AU19950035346	19950829
BRPI9508678 A	19971223	BR1995PI08678	19950829
CA2198623 AA	19970226	CA19952198623	19950829
CA2198623 C	20001024	CA19952198623	19950829
CN1051569 C	20000419	CN19951095221	19950829
CN1164867 A	19971112	CN19951095221	19950829
DE69513669 D1	20000105	DE19956013669	19950829
DE69513669 T2	20000406	DE19956013669T	19950829
EP0778873 A1	19970618	EP19950932243	19950829
EP0778873 B1	19991201	EP19950932243	19950829
ES2139242 T3	20000201	ES19950932243T	19950829
MX9701483 A1	19980228	MX19970001483	19950829
NO303837 B1	19980907	NO19940003188	19940829
NO314188 B1	20030210	NO19970000845	19970225
NO943188 A	19960301	NO19940003188	19940829
NO943188 A0	19940829	NO19940003188	19940829
NO970845 A	19970225	NO19970000845	19970225
NO970845 A0	19970225	NO19970000845	19970225
US6063266 A	20000516	US19970793662	19970227
WO9606899 A1	19960307	WO1995NO00142	19950829

Priority:

NO19940003188 19940829 NO19970000845 19970225 WO1995NO00142 19950829

Probable Assignee: STATOIL PETROLEUM AS

Assignee(s): (std): DEN NORSKE STATS OLJESELSKAP ASA ; GRANDE KNUT ; NORSKE STATS OLJESELSKAP ; STATOIL DEN NORSKE STATS OLJES ; STATOIL AS ; SORLIE CARSTEN ; DEN NORSKE STATS OLJESELSKAP A ; STATOIL DEN NORSKE STATS OLJESELSKAP AS ; NORSKE STATS OLJESELSKAP DEN AS

Assignee(s): STATOIL ASA ; STATOILHYDRO ASA ; STATOIL PETROLEUM AS ; NORSKE STATS OLJESELSKAP AS DEN ; DEN NORSKE STATS OLJESELSKAP A S ; SOERLIE CARSTEN ; DEN NORSKE STATS OLJESELSKAP N AS ; DEN NORSKE STATS OLJESELSKAP A S ; DEN NORSKE STATS OLJESELSKAP A S STAVANGER ; DEN NORSKE STATS OLJESELSKAP AS

Inventor(s): (std): GRANDE K ; GRANDE KNUT ; SOERLIE CARSTEN ; SORLIE C ; SORLIE CARSTEN

Inventor(s): C SORLIE ; CARSTEN SORLIE ; K GRANDE ; KNUT GRANDE

Agent(s): MACRAE AND CO

Designated states: 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 LT LU LV MC MD MG 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 US UZ VN

Title: PROCESS FOR THE PRODUCTION OF PIPELINEABLE CRUDE OIL FROM HEAVIER HYDROCARBONS

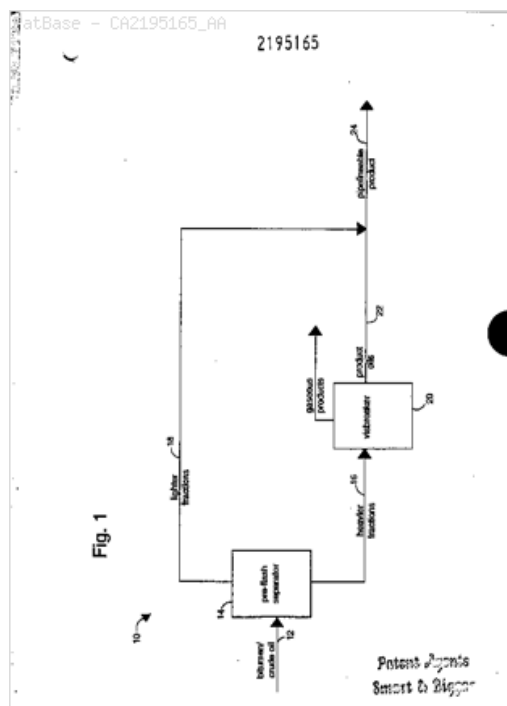
Abstract: Source: CA2195165A A process for the production of stable, pipelineable crude oil from heavy oils and/or bitumen that comprises feeding the heavy oils or bitumens either directly or after preheating into a fired heater. The feed is heated and kept at an elevated temperature long enough to break the viscosity. Alternatively, the feed is heated to a lesser temperature and transferred to a vessel for soaking over a longer time to break its viscosity. The heavy oil or bitumen feed may be prefractionated to removed lighter fractions prior to transferring the heavier fraction to the heater or heater/soaker which outputs visbroken products with lowered viscosity that are pipelineable crude oil. For predistillation, the lighter fractions are recombined with the visbroken product for pipeline transport.

Classifications:

International (IPC 8-9): C10G9/00 (Advanced/Invention);

C10G9/00 (Core/Invention)

International (IPC 1-7): C10G9/00



Family:

Publication number	Publication date	Application number	Application date
CA2195165 AA	19970717	CA19972195165	19970115

Priority:

CA19972195165 19970115 US19960586339 19960116

Probable Assignee: SOLV EX CORP

Assignee(s): (std): SOLV EX CORP

Assignee(s): LANE STEPHEN J ; LOGWINUK ALEX K ; RENDALL JOHN S

Inventor(s): (std): LANE STEPHEN J ; LOGWINUK ALEX K ; RENDALL JOHN S

Agent(s): SMART AND BIGGAR

Title: Process for reducing total acid number of crude oil

Abstract: Source: US5891325A The instant invention is directed to a process for reducing organic acids in petroleum feeds containing organic acids comprising: (a) thermally treating a petroleum feed containing organic acids in a thermal reaction zone comprising a plurality of stages in series, at a temperature and pressure sufficient to decompose at least a portion of said organic acids while sweeping said plurality of stages with an inert gas, to produce a volatile organic acid containing hydrocarbon fraction and a non-volatile hydrocarbon fraction; (b) treating said volatile hydrocarbon fraction to neutralize at least a portion of said organic acids therein and to produce a treated volatile hydrocarbon fraction; (c) collecting said non-volatile hydrocarbon fraction from said thermal reaction zone; and (d) blending said treated volatile hydrocarbon fraction of step (b) with said collected non-volatile hydrocarbon fraction.

Classifications:

International (IPC 8-9): C10G19/073 C10G31/06 C10G53/12

C10G55/04 (Advanced/Invention);

C10G17/00 (Advanced/Non-invention);

C10G19/00 C10G31/00 C10G53/00 C10G55/00 (Core/Invention)

International (IPC 1-7): C01G45/02 C10G C10G 45/02 C10G17/00

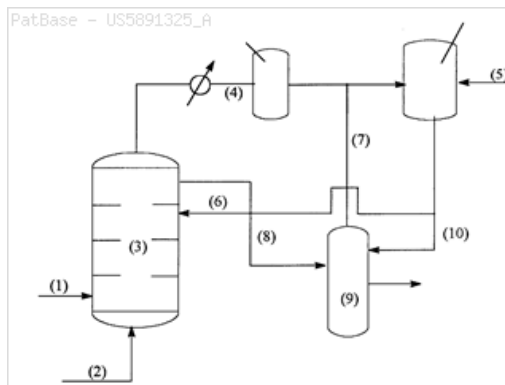
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C10G53/12 C10G55/04

CPC: C10G31/06

European: C10G31/06

US: 208/263 208/283 208/284 208/285



Family:

Publication number	Publication date	Application number	Application date
AR022360 AA	20020904	AR1999P103842	19990802
AT236235 E	20030415	AT19990934076T	19990716
AU199949991 A1	20000306	AU19990049991	19990716
AU199949991 A5	20000306	AU19990049991	19990716
AU750406 B2	20020718	AU19990049991	19990716
BRPI9912882 A	20010508	BR1999PI12882	19990716
CA2338623 AA	20010124	CA19992338623	19990716
CN1312849 A	20010912	CN19998009440	19990716
DE69906549 D1	20030508	DE19996006549	19990716
DE69906549 T2	20040115	DE19996006549T	19990716
DK1109879 T3	20030422	DK19990934076T	19990716
EP1109879 A1	20010627	EP19990934076	19990716
EP1109879 B1	20030402	EP19990934076	19990716
ES2194485 T3	20031116	ES19990934076T	19990716
ID28396 A	20010517	ID20010000560	19990716
JP2003534391 T2	20031118	JP20000565068T	19990716
KR20010088788 A	20010928	KR20017001702	20010209
NO20010599 A	20010205	NO20010000599	20010205
NO20010599 A0	20010205	NO20010000599	20010205
NO315709 B1	20031013	NO20010000599	20010205
RU2001103893 A	20030627	RU20010103893	19990716
RU2207366 C2	20030627	RU20010103893	19990716
TH40152 A	20000914	TH19991002558	19990712
TW500796 B	20020901	TW19990113759	19990817
US5891325 A	19990406	US19980132295	19980811
WO0009631 A1	20000224	WO1999US16058	19990716

Priority:

US19980132295 19980811 WO1999US16058 19990716

Probable Assignee: EXXON RESEARCH AND ENGINEERING CO

Assignee(s): (std): EXXON RESEARCH ENGINEERING CO ; EXXONMOBIL RES AND ENG CO ; EHKSSON RISERCH EHND EHNDZHINI

Assignee(s): EHKSSON RISERCH EHND EHNDZHINIRING KOMPANI ; EXXON RESEARCH AND ENGINEERING CO ; BEARDEN ROBY JR ; BLUM SAUL CHARLES ; EXXON RESEARCH AND ENGINEERING COMPANY ; EXXONMOBIL RESEARCH AND ENGINEERING COMPANY ; EXXONMOBIL RESEARCH AND ENGINEERING CO ANNANDALE ; EXXONMOBIL RESEARCH AND ENGINEERING CO ; ROBBINS WINSTON KARL ; OLMSTEAD WILLIAM NEERGAARD

Inventor(s): (std): BEARDEN JR ; BEARDEN JR ROBY ; BEARDEN R JR ; BEARDEN ROBY ; BEARDEN ROBY JR ; BIRDEN ROBI MLADSHIJ ; BLAM SOL CHARLZ ; BLUM CHARLES ; BLUM S C ; BLUM SAUL C ; BLUM SAUL CHARLES ; OLMSTEAD NEERGAARD ; OLMSTEAD W N ; OLMSTEAD WILLIAM ; OLMSTEAD WILLIAM N ; OLMSTEAD WILLIAM NEERGAARD ; OLMSTEAD UIL JAM NIRGARD ; OMSTEAD WILLIAM NEERGAARD ; ROBBINZ UINSTON KARL ; ROBBINS KARL ; ROBBINS WINSTON KARL

Inventor(s): ROBBINS WINSTONKARL ; ROBY BEARDEN ; ROBY BEARDEN JR ; S C BLUM ; SAUL C BLUM ; SAUL CHARLES BLUM ; SC BLUM ; W N OLMSTEAD ; WILLIAM N OLMSTEAD ; WILLIAM NEERGAARD OLMSTEAD ; WILLIAM NEERGAARD OMSTEAD ; WINSTON KARL ROBBINS ; WN OLMSTEAD ; R JR BEARDEN ; RJR BEARDEN ; OLMSTED UIL'JAM NIRGARD ; OLMSTEAD WILLIAMNEERGAARD ; BLUM SAULCHARLES ; BEARDEN ROBYJR

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP

Designated states: AT AU BE BR CA CH CN CY DE DK ES FI FR GB GR ID IE IT JP KR LI LU MC MX NL NO PT RU SE SG

Title: PROCESS TO PRODUCE PIPELINE-TRANSPORTABLE CRUDE OIL FROM FEED STOCKS CONTAINING HEAVY HYDROCARBONS

Abstract: Source: US2006144754A A process for the production of a pipeline-transportable crude oil from a bitumen feed, the process comprising: (1) dividing the bitumen feed into two fractions, the first fraction comprising between 20 and 80 wt percent of the feed, the second fraction comprising between 80 and 20 wt percent of the total feed, (the two fraction together forming 100 wt percent of the feed), (2) distillation of the first fraction obtained in step (1) (preferably under vacuum) into a light fraction boiling below 380 degrees centigrade (preferably the 450 degrees centigrade fraction, more preferably the 510 degrees centigrade fraction) and a residual fraction; (3) thermal cracking (of at least part of, preferably all of,) the residual fraction obtained in the distillation process described in step (2); (4) distillation of the product obtained in step (3) into one or more light fractions (boiling below 350 degrees centigrade), optionally one or more intermediate fractions (boiling between 350 and 510 degrees centigrade) and a heavy fraction (boiling above at least 350 degrees centigrade); (5) combining the second fraction obtained in step (1), the light fraction obtained in step (2) and the light fraction(s) obtained in step (4) to obtain a pipeline-transportable crude oil; and (6) using heavy fraction obtained in step (4) for the generation of power and/or heat.

Classifications:

International (IPC 8-9): C10G51/02 C10G7/00

C10G9/00 (Advanced/Invention);

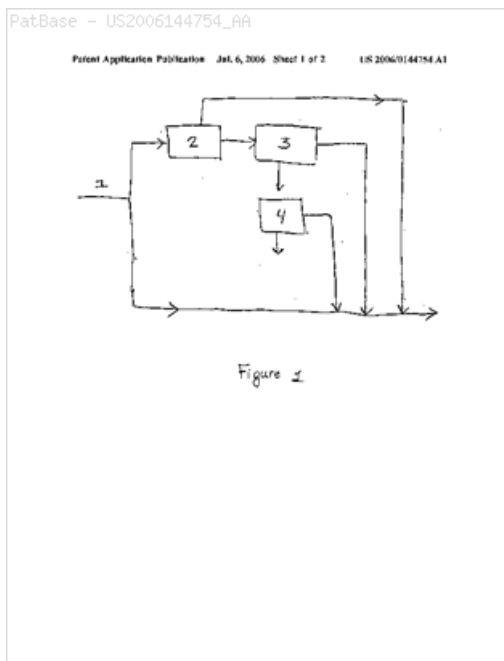
C10G51/00 C10G7/00 C10G9/00 (Core/Invention)

International (IPC 1-7): C10G51/02 C10G9/00

CPC: C10G9/007 C10G51/023

European: C10G51/02B C10G9/00V

US: 208/106 208/251R 208/309 208/321 208/337 208/370 208/86 208/92 208/93



Family:

Publication number	Publication date	Application number	Application date
CA2530148 AA	20051221	CA20042530148	20040701
CA2530148 C	20130910	CA20042530148	20040701
CO5721016 A2	20070131	CO20050131450	20051229
EA008123 B1	20070427	EA20060000140	20040701
EA200600140 A1	20060630	EA20060000140	20040701
MA27940 A1	20060601	MA20060028765	20060130
US2006144754 AA	20060706	US20040561690	20040701
US7491314 BB	20090217	US20040561690	20040701
WO05003258 A1	20050113	WO2004EP51322	20040701

Priority:

EP20030077061 20030701 WO2004EP51322 20040701

Probable Assignee: SHELL OIL CO

Assignee(s): (std): SHELL INT RESEARCH ; SHELL INT RES BV ; SCHRIJVERS FRANCISCUS ANTONIUS ; SHELL OIL CO ; SHELL INTERNATIONALE RES B V ; SHELL INTERNATIONALES RES MIJ B V ; VAN DEN BOSCH PETRUS JOHANNES

Assignee(s): VAN DEN BOSCH PETRUS JOHANNES WALTERUS MARIA ; SHELL INTERNATIONALES RESEARCH MAATSCHAPPIJ B V ; SHELL INTERNATIONALE RESEARCH B V ; SCHRIJVERS FRANCISCUS ANTONIUS MARIA ; SHELL INT RESEARCH MIJ BV ; SHELL INT RESEARCH BV ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V ; SHELL INTERNATIONAL RESEARCH MAATSCHAPPIJ B V ; SHELL OIL COMPANY

Inventor(s): (std): SCHRIJVERS FRANCISCUS ANTONIUS ; VAN DEN BOSCH PETRUS JOHANNES ; SCHRIJVERS FRANCISCUS ANTONIUS MARIA ; VAN DEN BOSCH PETRUS JOHANNES WALTERUS MARIA

Inventor(s): VAN DEN BOSCH PETRUS JOHANNES WM ; VAN DEN BOSCH PETRUS JOHANNES W M ; SCHRIJVERS FRANCISCUS ANTONIUS M

Agent(s): OGLIVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; SHELL OIL COMPANY; SHELL OIL CO; STEWART CHARLES W; CHARLES W

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 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: PROCESS FOR TREATING HEAVY OILS

Abstract: Source: US2008217211A A process for treating a heavy oil which comprises subjecting a heavy oil to cavitation to reduce the viscosity of the heavy oil. The treated heavy oil, which has a reduced viscosity and specific gravity, thus is more pumpable and transportable, which facilitates further processing. The treated heavy oil also can be fractionated with less severity than untreated heavy oil.

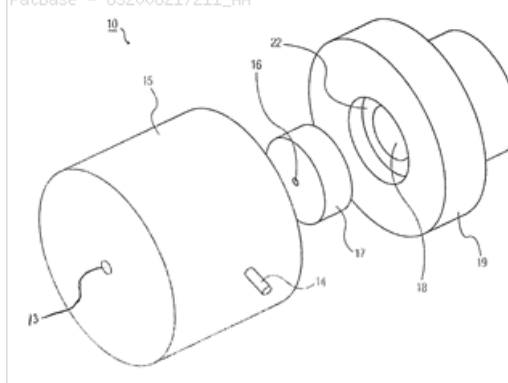
Classifications:**International (IPC 8-9):** C07C7/20 C10G15/08 C10G31/06

C10G71/00 C10G9/00 C10G9/34 (Advanced/Invention);

C10G31/00 C10G71/00 C10G9/00 (Core/Invention)

CPC: C10G2300/107 C10G2300/1077 C10G2300/4012 C07C7/20 C10G9/007 C10G15/08 C10G31/06 C10G2300/1011 C10G2300/302 C10G2300/4006 Y02P30/20 B01J19/008 B01J19/24 B01J19/2405 B01J2219/00087 B01J2219/00159**European:** C10G15/08 C10G31/06 C10G9/00V**US:** 208/106 208/125 208/46 208/85 585/13

PatBase - US2008217211_AA

**Family:**

Publication number	Publication date	Application number	Application date
CA2611251 AA	20080906	CA20072611251	20071120
CA2611251 C	20140121	CA20072611251	20071120
CA2814773 AA	20080906	CA20072814773	20071120
CA2814773 C	20140812	CA20072814773	20071120
CN101663378 A	20100303	CN200880007265	20080108
CN101663378 B	20140716	CN200880007265	20080108
CO6231048 A2	20101220	CO20090105298	20090925
ECSP099657 A	20091228	EC2009SP09657	20090928
EP2118240 A1	20091118	EP20080700491	20080108
EP2118240 A4	20121010	EP20080700491	20080108
MX2009009205 A1	20100212	MX20090009205	20080108
US2008217211 AA	20080911	US20070983842	20071113
US2013096354 AA	20130418	US20110336054	20111223
US8105480 BB	20120131	US20070983842	20071113
US8871081 BB	20141028	US20110336054	20111223
WO08106765 A1	20080912	WO2008CA00010	20080108

Priority:

CA20072611251 20071120 CA20072814773 20071120 CA20132611251 20130521
US20070905171P 20070306 US20070983842 20071113 WO2008CA00010 20080108
US20110336054 20111223

Probable Assignee: FRACTAL SYSTEMS INC**Assignee(s):** (std): CHORNET ESTEBAN ; CHORNET MICHEL ; FRACTAL SYSTEMS INC**Assignee(s):** FRACTAL SYSTEMS INC4070 PORTLAND BLVD.SHERBROOKEQ1J1L 2Y4CA ; CHORNET MICHEL2706 BEAUDRYSHERBROOKEQ1J1L 2N6CA ; CHORNET ESTEBAN470 MONTMAGNYSHERBROOKEQ1J1L 1H3CA**Inventor(s):** (std): CHORNET ESTEBAN ; CHORNET MICHAEL ; CHORNET MICHEL ; ESTEBAN CHORNET ; MICHEL CHORNET**Inventor(s):** MICHAEL CHORNET ; CHORNET MICHEL2706 BEAUDRYSHERBROOKEQ1J1L 2N6CA ; CHORNET ESTEBAN470 MONTMAGNYSHERBROOKEQ1J1L 1H3CA**Agent(s):** SMART AND BIGGAR; ALVARO CORREA ORDONEZ; WALCHER ARMIN; RAYMOND J LILLIE ESQ C O CARELLA BYRNE BAIN GILFILLAN; ELLIOT M; RAYMOND J**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 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 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: TREATED OILS HAVING REDUCED DENSITIES AND VISCOSITIES

Abstract: Source: US2008314796A A treated oil, such as a treated heavy oil, which has a viscosity which is lower than the viscosity of the oil prior to the treatment thereof (i.e., the initial oil). The temperature at which 80 mass percent of the treated oil has boiled is within 25 degrees centigrade of temperature at which 80 mass percent of the oil prior to the treatment thereof has boiled. Thus, the treated oil and the oil prior to the treatment thereof, have distillation curves or boiling point curves which are the same as or approximate to each other.

Classifications:

International (IPC 8-9): B01J19/00 C10G31/06 C10G47/22 C10G50/00 C10G99/00 C10L1/00 G06F15/16

H04L29/06 (Advanced/Invention);

G06F17/30 (Advanced/Non-invention);

C10G47/00 C10G50/00 C10G99/00 G06F15/16 (Core/Invention)

CPC: C10G2300/308 C10G31/06 H04L65/60 G06F17/30017

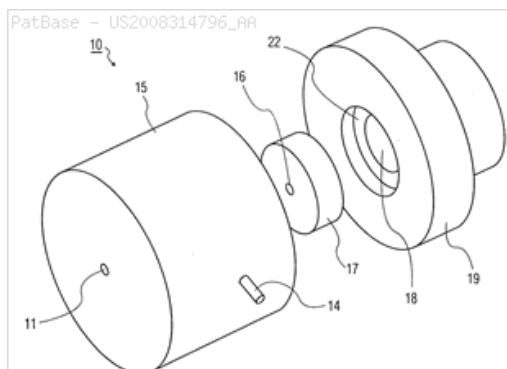
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C10G2300/301 C10G2300/302

European: C10G31/00 C10G31/06 G06F17/30E G06F17/30W7S

US: 208/14 208/14P 208/15 208/16 208/17 208/18 709/206 709/217

709/217P 709/219 709/231 709/232



Family:

Publication number	Publication date	Application number	Application date
CA2617985 AA	20081222	CA20082617985	20080111
CA2617985 C	20121218	CA20082617985	20080111
US2008314796 AA	20081225	US20070999671	20071206
US2008320100 AA	20081225	US20080143119	20080620
US2011240517 AA	20111006	US20110066605	20110419
US2014012952 AA	20140109	US20130926742	20130625
US2017137727 AA	20170518	US20170416471	20170126
US7943035 BB	20110517	US20070999671	20071206
US8489702 BB	20130716	US20080143119	20080620
US9015276 BB	20150421	US20130926742	20130625
WO09000062 A1	20081231	WO2008CA00042	20080111
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Priority:

CA20082617985 20080111	US20070936826P 20070622	US20070999671 20071206
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Probable Assignee: APPLE INC

Assignee(s): (std): APPLE INC ; BATSON JAMES D ; BUSHELL JOHN SAMUEL ; CARLSON ERIC ; CHORNET ESTEBAN ; FRACTAL SYSTEMS INC ; JONES JEREMY ; PANTOS ROGER ; CHORNET MICHEL

Inventor(s): (std): BATSON JAMES D ; BUSHELL JOHN SAMUEL ; CARLSON ERIC ; JONES JEREMY ; JONES JEREMY SPENCER ; PANTOS ROGER ; CHORNET MICHEL ; CHORNET ESTEBAN

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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 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 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: ACCESS CONTROL DEVICE FOR A DOOR

Abstract: Source: US2011067308A A door release system including a capacitive circuit that includes a touch bar, a microprocessor within the touch bar programmed with noise-discrimination software to sense touching of the bar, and at least one micro-switch within the bar to function as a back-up that picks up movement of the bar to release the latch should the capacitive circuit fail. Optionally, a sign illuminated by LEDs and an antimicrobial coating/treatment may be applied to the bar. The system is intended for use on magnetically locked doors. The addition of the micro-switches that are actuatable by continued movement on the touch bar after the bar is initially touched provides a redundant access function initiated by other than the capacitive effect of human touch, which is expected to simplify use and ease accessibility for personnel with prosthetics or who may otherwise have their hands occupied.

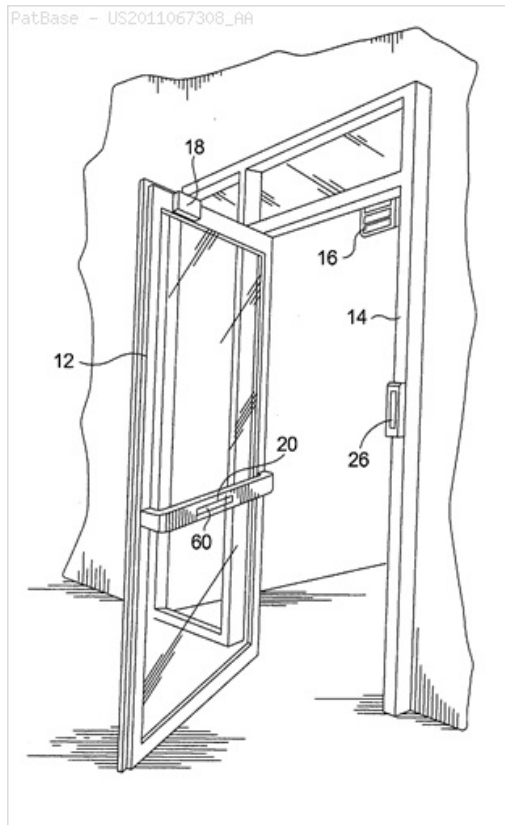
Classifications:

International (IPC 8-9): E05B47/00 E05B47/04 E05B65/10 E05C19/16 E05F15/20 E06B7/00 E06B7/28 (Advanced/Invention); E05B1/00 E05B17/10 E05B17/22 E05B3/00 E05B63/04 (Advanced/Non-invention)

CPC: E05C19/166 E05B1/0069 E05B17/10 E05B17/22 E05B63/04 E05B65/1053

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CA2714979 C	20161101	CA20102714979	20100920
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US9151096 BB	20151006	US20100883618	20100916

Priority:

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