

Diego Gonzalez

Search history

- Search 1: STAC=(power and plan and cell and solar and predict*) (Results 13)
- Search 2: STAC=(power and plant and cell and solar and predict*) (Results 42)
- Search 3: STAC=(power and plant and cell and solar and predict* and calcul*) (Results 28)

Title: IN SITU THERMAL PROCESSING AND INHIBITING MIGRATION OF FLUIDS INTO OR OUT OF AN IN SITU OIL SHALE FORMATION

Abstract: An oil shale formation may be treated using an in situ thermal process. Fluid migration into and/or out of a treatments area in the formation may be inhibited. In some embodiments, a barrier may be used to inhibit migration of fluids into and/or out of the treatment area. Heat may be provided to the treatment area and subsequently, hydrocarbons, H₂, and/or other formation fluids may be produced from the formation.

Classifications:

International (IPC 8-9): C10G1/00 C10G49/00 E21B36/00 E21B42/243 E21B43/00 E21B43/24 E21B43/243 E21B43/247 E21B43/28 E21B43/30 E21B43/40 E21B47/00 E21B49/00

E21C41/24 (Advanced/Invention);
E21B47/00 (Core/Invention)

International (IPC 1-7): C01B3/24 C10G1/00 C10G47/22 C10G49/00 E21B1/00 E21B17/10 E21B19/22 E21B36/04 E21B43/00 E21B43/24 E21B43/243 E21B43/26 E21B43/295 E21B43/30 E21B43/34 E21B47/00 E21B47/06 E21C37/16 E21C37/20 E21C41/16 H05B3/80

CPC: E21B43/24 E21B43/2401 E21B43/243 E21B43/247 E21B43/30
European: E21B43/243 E21B43/247 E21B43/30

US: 166/242.1 166/242.100P 166/245 166/250.01 166/250.010P 166/250.07 166/250.070P 166/250.12 166/250.15 166/251.1 166/254.1 166/256 166/256S 166/257 166/261 166/264 166/266 166/267 166/271 166/272.1 166/272.100P 166/272.100S 166/272.2 166/272.3 166/272.7 166/300 166/302 166/302S 166/303 166/308 166/384 166/52 166/57 166/59 166/59S 166/6 166/60 166/60P 166/60S 299/14 299/14P 299/4 299/5 299/5P 299/6 299/7 392/301 392/301P 392/305 392/306 405/130 405/270 405/52 423/131 423/208 423/658.5 507/200 507/200P 585/1 585/2

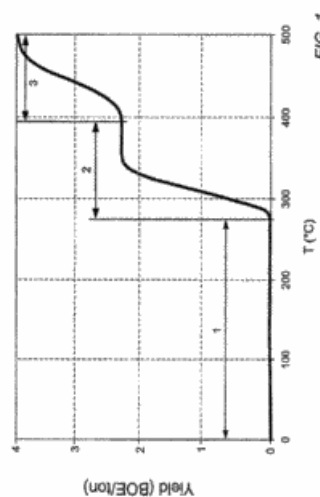
PatBase - US2003080604_AA

U.S. Patent

Apr. 25, 2006

Sheet 1 of 241

US 7,032,660 B2



Family:

Publication number	Publication date	Application number	Application date
CA2445415 AA	20031023	CA20022445415	20020424
CA2445415 C	20110830	CA20022445415	20020424
US2003080604 AA	20030501	US20020131352	20020424
US2003111223 AA	20030619	US20020128700	20020424
US2003131993 AA	20030717	US20020131122	20020424
US2003131994 AA	20030717	US20020131350	20020424
US2003131996 AA	20030717	US20020131264	20020424
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US2003137181 AA	20030724	US20020131285	20020424
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US2003164239 AA	20030904	US20020131233	20020424
US2003173078 AA	20030918	US20020131235	20020424
US2003209348 AA	20031113	US20020131154	20020424
US2004211554 AA	20041028	US20020128698	20020424
US2004211557 AA	20041028	US20020131234	20020424
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US6923257 BB	20050802	US20020131235	20020424
US6929067 BB	20050816	US20020128698	20020424
US6951247 BB	20051004	US20020128700	20020424
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US7040397 BB	20060509	US20020128699	20020424
US7040399 BB	20060509	US20020131348	20020424
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WO02086018 A2	20021031	WO2002US13311	20020424
WO02086018 A3	20040115	WO2002US13311	20020424

Priority:

US20010286062P	20010424	US20010337249P	20011024	US20020128698	20020424
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Probable Assignee: SHELL OIL CO

Assignee(s): (std): SHELL OIL CO ; SHELL INT RESEARCH ; SHELL CANADA LTD

Assignee(s): VAN HARDEVELD MARTIJN ; WELLINGTON SCOTT L ; RYAN ROBERT C ; STEGEMEIER GEORGE L ; SUMNU DINDORUK MELIHA D ; WARD JOHN M ; SCHOELING LANNY ; WATKINS WADE ; SHAHIN GORDON T ; VEENSTRA PETER ; SHELL INT RESEARCH MIJ BV ; WATKINS RONNIE WADE ; SCHOELING LANNY GENE ; STEGEMEIER GEORGE LEO ; VAN HARDEVELD ROBERT MARTIJN ; RYAN ROBERT CHARLES ; SHAHIN GORDON THOMAS ; ZHANG ETUAN ; VINEGAR HAROLD J ; WELLINGTON SCOTT LEE ; WARD JOHN MICHAEL ; VINEGAR HOROLD J ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V ; SHELL CANADA LIMITED ; AYMOND DANNIE ANTOINE ; BASS RONALD ; BASS RONALD MARSHALL ; BAXLEY PHILIP T ; BERCHENKO ILYA E ; BERCHENKO ILYA EMIL ; COLES JOHN MATTHEW ; CARL FREDRICK GORDON ; FOWLER THOMAS DAVID ; DE ROUFFIGNAC ERIC PIERRE ; BIELAMOWICZ LAWRENCE JAMES ; COLE ANTHONY THOMAS ; COLES JOHN M ; FOWLER THOMAS D ; BIELAMOWICZ LAWRENCE J ; DE ROUFFIGNAC ERIC ; CARL FRED G ; CRANE STEVE ; MCKINZIE BILLY JOHN ; PALFREYMAN BRUCE DONALD ; HUNSUCKER BRUCE GERARD ; MENOTTI JAMES LOUIS ; MAHER KEVIN ALBERT ; KARANIKAS JOHN MICHAEL ; ROUFFIGNAC ERIC PIERRE DE ; KEEDY CHARLES ROBERT ; PIERRE DE ROUFFIGNAC ERIC ; MADGAVKAR AJAY MADHAV ; PLAFREYMAN BRUCE DONALD ; PRATT CHRISTOPHER ARNOLD ; ROBERTS BRUCE ; MAHER KEVIN A ; GLANDT CARLOS ; MESSIER MARGARET ; KARANIKAS JOHN M ; HUNSUCKER BRUCE G ; MENOTTI JAMES L ; LEPPER BRUCE ; MIKUS TOM ; KEEDY CHARLIE R ; MADGAVKAR AJAY M ; PRATT KIP ; SHELL OIL COMPANY

Inventor(s): (std): RYAN R BERT C ; ROUFFIGNAC ERIC PIERRE DE ; ROBERTS BRUCE ; PRATT KIP ; PRATT CHRISTOPHER ARNOLD ; PLAFREYMAN BRUCE DONALD ; PIERRE DE ROUFFIGNAC ERIC ; PALFREYMAN BRUCE DONALD ; MIKUS TOM ; MESSIER MARGARET ; MENOTTI JAMES LOUIS ; MENOTTI JAMES L ; MCKINZIE II BILLY JOHN ; MCKINZIE BILLY JOHN ; MAHER KEVIN ALBERT ; MAHER KEVIN A ; MADGAVKAR AJAY MADHAV ; MADGAVKAR AJAY M ; LEPPER BRUCE ; KEEDY CHARLIE R ; KEEDY CHARLES ROBERT ; KARANIKAS JOHN MICHAEL ; KARANIKAS JOHN M ; HUNSUCKER BRUCE GERARD ; HUNSUCKER BRUCE G ; GLANDT CARLOS ; FOWLER THOMAS DAVID ; FOWLER THOMAS D ; DE ROUFFIGNAC ERIC PIERRE ; DE ROUFFIGNAC ERIC ; CRANE STEVE ; COLES JOHN MATTHEW ; COLES JOHN M ; COLE ANTHONY THOMAS ; CARL JR FREDRICK GORDON ; CARL FREDRICK GORDON ; CARL FRED G ; BIELAMOWICZ LAWRENCE JAMES ; BIELAMOWICZ LAWRENCE J ; BERCHENKO ILYA EMIL ; BERCHENKO ILYA E ; BAXLEY PHILIP T ; BASS RONALD MARSHALL ; BASS RONALD ; AYMOND JR DANNIE ANTOINE ; AYMOND DANNIE ANTOINE ; ZHANG ETUAN ; WELLINGTON SCOTT LEE ; WELLINGTON SCOTT L ; WATKINS WADE ; WATKINS RONNIE WADE ; WARD JOHN MICHAEL ; WARD JOHN M ; VINEGAR HOROLD J ; VINEGAR HAROLD J ; VEENSTRA PETER ; VAN HARDEVELD ROBERT MARTIJN ; VAN HARDEVELD MARTIJN ; SUMNU DINDORUK MELIHA D ; STEGEMEIER GEORGE LEO ; STEGEMEIER GEORGE L ; SHAHIN JR GORDON THOMAS ; SHAHIN GORDON THOMAS ; SHAHIN GORDON T ; SCHOELING LANNY GENE ; SCHOELING LANNY ; RYAN ROBERT CHARLES ; RYAN ROBERT C

Inventor(s): RYAN ROBERT C

Agent(s): SMART AND BIGGAR

Designated states: AE AG AL AM AT 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 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Title: SYSTEM AND METHOD FOR PHOTOVOLTAIC **PLANT POWER** CURVE MEASUREMENT AND HEALTH MONITORING

Abstract: A photovoltaic (PV) **plant power** curve measurement system determines normalized irradiation data in response to algorithmic software based on measured or **calculated** irradiance at one or more desired PV **plant** locations. The measurement system also measures PV **plant** electrical **power** and generates an estimated **power** curve map of corresponding photovoltaic **plant** electrical **power** as a function of the normalized irradiation data and the measured PV **plant** electrical **power**, such that corresponding **power** curve data can be compared to historical, theoretical or simulated **power** curve data based on normalized irradiation data for the photovoltaic **plant** to detect degradation of the photovoltaic **plant** in a desired time frame.

Classifications:

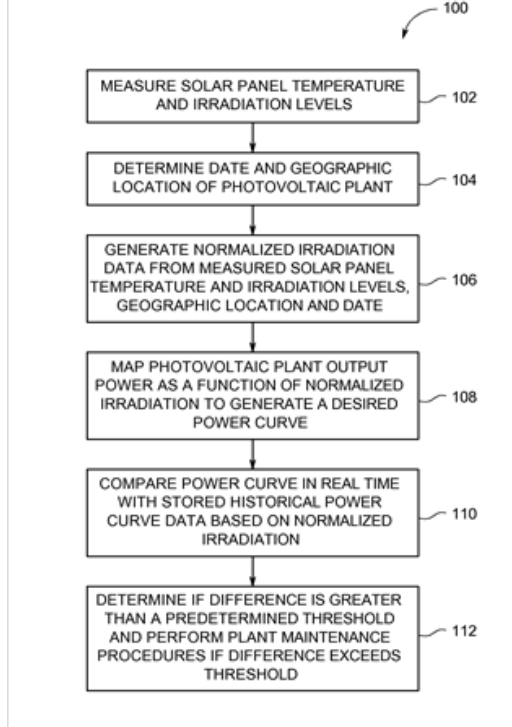
International (IPC 8-9): G01J1/42 G01R21/00 G06F17/30 G06F19/00 H01L31/042 H02J3/38 H02N6/00 (Advanced/Invention)

CPC: H02J3/383 Y02E10/563 H02S50/10

European: G01R31/40B T02J3/38 T02J3/38D1S Y02E10/50 Y02E10/56B

US: 702/60 702/60P 707/802 707/802S 707/E17.005 707/E17.005S

PatBase - US2011282600_AA



Family:

Publication number	Publication date	Application number	Application date
AU2011202124 AA	20111201	AU20110202124	20110509
AU2011202124 BB	20150917	AU20110202124	20110509
CN102244393 A	20111116	CN201110134114	20110512
CN102244393 B	20161214	CN201110134114	20110512
EP2398067 A2	20111221	EP20110165524	20110510
EP2398067 A3	20180110	EP20110165524	20110510
US2011282600 AA	20111117	US20100778309	20100512

Priority:

US20100778309 20100512

Probable Assignee: GENERAL ELECTRIC CO

Assignee(s): (std): EL BARBARI SAID FAROUK SAID ; GEN ELECTRIC ; ROESNER ROBERT

Assignee(s): GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY

Inventor(s): (std): EL BARBARI SAID FAROUK SAID ; ROBERT ROESNER ; ROESNER ROBERT ; SAID EL BARBARI SAID FAROUK

Agent(s): PHILLIPS ORMONDE FITZPATRICK; BEDFORD GRANT RICHARD; BRANNEN JOSEPH WACLAW

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: IN SITU THERMAL PROCESSING OF AN OIL SHALE FORMATION USING A PATTERN OF HEAT SOURCES

Abstract: A oil shale formation may be treated using an in situ thermal process. A mixture of hydrocarbons, H₂, and/or other formation fluids may be produced from the formation. Heat may be applied to the formation to raise a temperature of a portion of the formation to a pyrolysis temperature. Heat sources may be used to heat the formation. The heat sources may be positioned within the formation in a selected pattern.

Classifications:

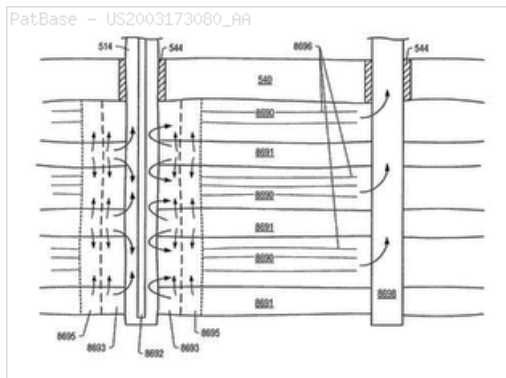
International (IPC 8-9): E21B43/24 E21B43/243 E21B43/247 E21B43/30 E21B43/34 E21B47/06 E21C41/24 (Advanced/Invention)

International (IPC 1-7): E21B43/24

CPC: E21B43/24 E21B43/2401 E21B43/243 E21B43/247 E21B43/30

European: E21B43/243 E21B43/247 E21B43/30

US: 166/245 166/250.01 166/250.010S 166/250.1 166/256 166/257 166/257S 166/267 166/267S 166/272.1 166/272.100S 166/302 166/302S 166/57 166/60



Family:

Publication number	Publication date	Application number	Application date
US2003173080 AA	20030918	US20020131286	20020424
US2006213657 AA	20060928	US20060343913	20060131
US6991032 BB	20060131	US20020131286	20020424
US7225866 BB	20070605	US20060343913	20060131

Priority:

US20010286062P 20010424 US20010337249P 20011024 US20020131286 20020424
US20060343913 20060131

Probable Assignee: SHELL OIL CO

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

Assignee(s): SHELL OIL COMPANY ; ZHANG ETUAN ; VINEGAR HAROLD J ; WELLINGTON SCOTT LEE ; STEGEMEIER GEORGE LEO ; BERCHENKO ILYA EMIL ; DE ROUFFIGNAC ERIC PIERRE ; FOWLER THOMAS DAVID ; KARANIKAS JOHN MICHAEL ; RYAN ROBERT CHARLES ; SHAHIN GORDON THOMAS

Inventor(s): (std): ZHANG ETUAN ; WELLINGTON SCOTT LEE ; WELLINGTON SCOTT L ; VINEGAR HAROLD J ; STEGEMEIER GEORGE LEO ; STEGEMEIER GEORGE L ; SHAHIN JR GORDON THOMAS ; ROUFFIGNAC ERIC P D ; KARANIKAS JOHN MICHAEL ; KARANIKAS JOHN M ; FOWLER THOMAS DAVID ; FOWLER THOMAS D ; DE ROUFFIGNAC ERIC PIERRE ; BERCHENKO ILYA EMIL ; BERCHENKO ILYA E ; SHAHIN GORDON THOMAS ; SHAHIN GORDON T JR ; RYAN ROBERT CHARLES ; RYAN ROBERT C

Inventor(s): ROUFFIGNAC ERIC PD ; SHAHIN GORDON TJR ; BERCHENKO ILYA ; FOWLER THOMAS ; KARANIKAS JOHN ; ROUFFIGNAC ERIC ; RYAN ROBERT ; SHAHIN GORDON ; STEGEMEIER GEORGE ; VINEGAR HAROLD ; WELLINGTON SCOTT

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

Title: In situ recovery from a oil shale formation

Abstract: IN SITU RECOVERY FROM A OIL SHALE FORMATION Abstract An oil shale formation may be treated using an in situ thermal process. Heat may be provided to a formation from a heat source in the formation. Hydrocarbons within the formation may be pyrolyzed. Hydrocarbons, H₂, and/or other formation fluids may be produced from the formation. In some embodiments, the formation may include a relatively impermeable portion and/or a relatively permeable portion.

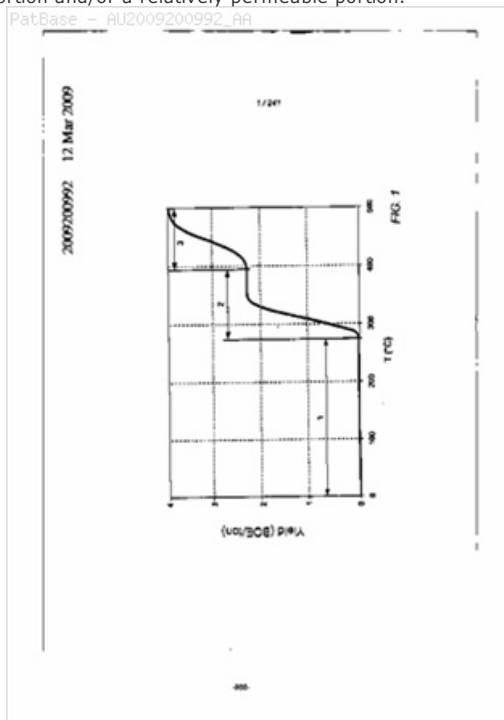
Classifications:

International (IPC 8-9): E21B43/243 E21B43/247 E21B43/30
E21C41/24 G02B5/18 G02B5/32 G02B6/124 G02B6/136

G02B6/293 (Advanced/Invention);
G02B6/12 (Advanced/Non-invention)

CPC: E21B43/24 E21B43/2401 E21B43/243 E21B43/247 E21B43/30

European: E21B43/243 E21B43/247 E21B43/30



Family:

Publication number	Publication date	Application number	Application date
AU2009200992 AA	20090402	AU20090200992	20090312

Priority:

US20010286062P 20010424 US20010337249P 20011024 AU20020257221 20020424
WO2002US13311 20020424 AU20090200992 20090312

Probable Assignee: SHELL INT RESEARCH

Assignee(s): (std): SHELL INT RESEARCH

Assignee(s): SHELL INT RESEARCH MIJ BV ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V

Inventor(s): (std): BASS RONALD ; BAXLEY PHILIP T ; BERCHENKO ILYA E ; BIELAMOWICZ LAWRENCE J ; COLES JOHN M ; CRANE STEVE ; CARL FRED G ; FOWLER THOMAS D ; GIANDT CARLOS ; HARDEVELD MARTIJN VAN ; HUNSUCKER BRUCE G ; KARANIKAS JOHN M ; KEEDY CHARLIE R ; LEPPER BRUCE ; MADGAVKAR AJAY M ; MAHER KEVIN A ; MENOTTI JAMES L ; MESSIER MARGARET ; MIKUS TOM ; PRATT KIP ; ROBERTS BRUCE ; ROUFFIGNAC ERIC DE ; RYAN ROBERT C ; SCHOELING LANNY ; SUMNI DINDORUK MELIHA D ; SHAHIN GORDON T ; STEGEMEIER GEORGE L ; VEENSTRA PETER ; VINEGAR HAROLD J ; WARD JOHN M ; WATKINS WADE ; WELLINGTON SCOTT L ; ZHANG ETUAN

Inventor(s): AJAY M MADGAVKAR ; WADE WATKINS ; STEVE CRANE ; THOMAS D FOWLER ; TOM MIKUS ; VAN HARDEVELD MARTIJN ; SCOTT L WELLINGTON ; RONALD BASS ; ROBERT C RYAN ; PETER VEENSTRA ; PHILIP T BAXLEY ; MARGARET MESSIER ; MARTIJN VAN HARDEVELD ; MELIHA D SUMNI DINDORUK ; KEVIN A MAHER ; KIP PRATT ; LANNY SCHOELING ; LAWRENCE J BIELAMOWICZ ; ILYA E BERCHENKO ; JAMES L MENOTTI ; JOHN M COLES ; JOHN M KARANIKAS ; JOHN M WARD ; HAROLD J VINEGAR ; GORDON T SHAHIN ; FRED G CARL ; GEORGE L STEGEMEIER ; CARLOS GIANDT ; CHARLIE R KEEDY ; DE ROUFFIGNAC ERIC ; ERIC DE ROUFFIGNAC ; ETUAN ZHANG ; BRUCE G HUNSUCKER ; BRUCE LEPPER ; BRUCE ROBERTS

Agent(s): SPRUSON AND FERGUSON

Title: NETWORK SYSTEM AND METHOD OF CONTROLLING NETWORK SYSTEM

Abstract: Provided are a network system and a method of controlling the same. The network system includes an energy supply part including a plurality of **power** supply sources, an energy metering part communicating with the plurality of **power** supply sources, the energy metering measuring energy supplied from the plurality of **power** supply sources, an energy management part receiving energy-related information supplied from the energy supply part, and an energy consumption part consuming **power** supplied from the energy supply part, the energy consumption part being operable and controllable by the energy management part. At least one **power** supply source of the plurality of **power** supply sources is selected according to an order of priority of a **power** supply, based on energy information related to the plurality of **power** supply sources. Thus, the **power** supply source having minimum costs is selected to efficiently manage energy within an intellectual **power** supply network.

Classifications:

International (IPC 8-9): G05B13/02 G06Q50/00 G06Q50/06

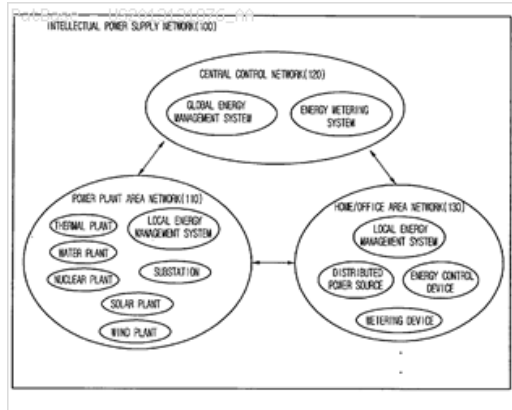
H02J13/00 H02J3/00 H02J3/38 H04L12/10 H04L12/16

H04L12/24 (Advanced/Invention)

CPC: G05B13/02 H02J3/008 H02J3/382 H02J3/383 H02J3/386 H02J13/0062 H02J13/0075 H04L12/10 Y02E10/563 Y02E10/763 Y02E40/72 Y02E40/76 Y04S10/123 Y04S10/545 Y04S50/10

European: H02J5/00T H04L12/10 Y02E40/76 Y04S10/54B

US: 1/1 700/286

**Family:**

Publication number	Publication date	Application number	Application date
EP2504949 A2	20121003	EP20100833545	20101124
EP2504949 A4	20131023	EP20100833545	20101124
KR101623785 B1	20160524	KR20090114011	20091124
KR20110057557 A	20110601	KR20090114011	20091124
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WO11065733 A3	20111110	WO2010KR08313	20101124

Priority:

KR20090114011 20091124 KR20090114015 20091124 WO2010KR08313 20101124

Probable Assignee: LG ELECTRONICS INC

Assignee(s): (std): KIM DAEWOONG ; KIM YANGHWAN ; LEE HOONBONG ; LEE KOONSEOK ; LG ELECTRONICS INC

Inventor(s): (std): KIM DAE WOONG ; KIM DAEWOONG ; KIM YANG HWAN ; KIM YANGHWAN ; LEE HOON BONG ; LEE HOONBONG ; LEE KOON SEOK ; LEE KOONSEOK

Agent(s): URNER PETER; DENTONS US LLP; HAW YONG NOKE

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 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 RO RS RU 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: IN SITU THERMAL RECOVERY FROM A RELATIVELY PERMEABLE FORMATION USING GAS TO INCREASE MOBILITY

Abstract: A method for treating a relatively permeable formation containing heavy hydrocarbons in situ may include providing heat from one or more heat sources to a portion of the formation. The heat may be allowed to transfer from the heat sources to a selected section of the formation. The transferred heat may reduce the viscosity of at least some hydrocarbons within the selected section. A gas may be produced to the selected section of the formation. The gas may produce a flow of hydrocarbons within the selected section. A mixture of hydrocarbons may be produced from the selected section.

Classifications:

International (IPC 8-9): C01B3/24 C10G1/00 C10G47/22 C10G49/00 E21B1/00 E21B17/10 E21B36/00 E21B36/02 E21B36/04 E21B43/14 E21B43/16 E21B43/24 E21B43/243 E21B43/247 E21B43/28 E21B43/295 E21B43/30 E21B43/34 E21B43/40 E21B47/00 E21B47/06 E21B49/00 E21B7/04 (Advanced/Invention); E21B1/00 E21B36/00 E21B43/00 E21B43/16 (Core/Invention)

International (IPC 1-7): C07C C09K7/00 C10B3/24 C10G1/00 E21B E21B1/00 E21B36/00 E21B36/02 E21B36/04 E21B43/16 E21B43/24 E21B43/243 E21B43/30 E21B43/40 E21B49/00 E21C37/16 E21C37/20

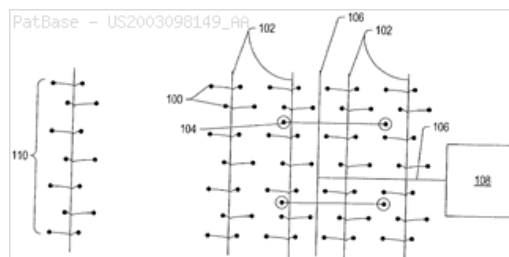
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Family:

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Probable Assignee: SHELL OIL CO

Assignee(s): (std): SHELL CANADA LIMITED ; SHELL INT RESEARCH MIJ B ; SHELL INT RESEARCH ; SHELL CANADA LTD ; SHELL OIL CO ; SHELL OIL COMPANY

Assignee(s): WELLINGTON SCOTT LEE ; VINEGAR HAROLD J ; SUMNU DINDORUK MELIHA DENIZ ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ BV ; ZHANG ETUAN ; STEGEMEIER GEORGE LEO ; SHELL INTERNATIONALE RESEARCHMAATSCHAPPIJ B V ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V ; SHELL INT RESEARCH MIJ BV ; BERCHENKO ILYA EMIL ; CRANE STEVEN DEXTER ; DE ROUFFIGNAC ERIC ; DE ROUFFIGNAC ERIC PIERRE ; DINDORUK MELIHA DENIZ SUMNU ; FOWLER THOMAS DAVID ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B ; ROUFFIGNAC ERIC PIERRE DE ; MAHER KEVIN ALBERT ; ROBERTS BRUCE EDMUNDS ; KARANIKAS JOHN MICHAEL ; MESSIER MARGARET ANN ; RYAN ROBERT CHARLES ; SHAHIN GORDON THOMAS ; MESSIER ANN MARGARET

Inventor(s): (std): BASS RONALD ; BAXLEY PHILIP T ; BERCHENKO ILYA E ; BIELAMOWICZ LAWRENCE J ; CARL FRED G ; COLES JOHN M ; CRANE STEVE ; DE ROUFFIGNAC ERIC ; DINDORUK MELIHA DENIZ SUMNU ; FOWLER THOMAS D ; GLANDT CARLOS ; HUNSUCKER BRUCE G ; KARANIKAS JOHN MICHAEL ; LEPPER BRUCE ; MAHER KEVIN ALBERT ; MESSIER ANN MARGARET ; MIKUS TOM ; PRATT KIP ; ROBERTS BRUCE ; ROUFFIGNAC ERIC DE ; SCHOELING LANNY ; KARANIKAS JOHN MICHAEL ; DINDORUK MELIHA DENIZ SUMMU ; WELLINGTON SCOTT L ; VINEGAR HAROLD J ; SUMNU DINDORUK MELIHA DENIZ ; SHAHIN GORDON T ; RYAN ROBERT C ; ROUFFIGNAC ERIC PIERRE DE ; ROBERTS BRUCE EDMUNDS ; MESSIER MARGARET ANN ; MESSIER ANN MARGARET ; MENOTTI JAMES L ; MAHER KEVIN A ; MADGAVKAR AJAY M ; KEEDY CHARLIE R ; KARANIKAS JOHN M ; WELLINGTON SCOTT ; VINEGAR HAROLD ; MESSIER ANN ; MAHER KEVIN ; DINDORUK MELIHA ; CRANE STEVEN ; STEGEMEIER GEORGE LEO ; SHAHIN JR GORDON THOMAS ; SHAHIN GORDON THOMAS ; SUMNU DINDORUK MELIHA D ; VAN HARDEVELD MARTIJN ; VEENSTRA PETER ; WARD JOHN M ; WATKINS WADE ; WELLINGTON SCOTT LEE ; ZHANG ETUAN ; MESSIER MARGARET ; FOWLER THOMAS DAVID ; DEXTER CRANE STEVEN ; DE ROUFFIGNAC ERIC PIERRE ; BERCHENKO ILYA EMIL ; MARGARET MESSIER ANN ; LEE WELLINGTON SCOTT ; ETUAN ZHANG ; ERIC DE ROUFFIGNAC ; DINDORUK MELIHA DENIZ ; ALBERT MAHER KEVIN ; STEGEMEIER GEORGE L ; CRANE STEVEN DEXTER ; CRANE STEVEN D ; RYAN ROBERT CHARLES ; MICHAEL KARANIKAS JOHN

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Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR

Designated states: AE AG AL AM AT 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 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 NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Title: FORMING OPENINGS IN A HYDROCARBON CONTAINING FORMATION USING MAGNETIC TRACKING

Abstract: A method for forming one or more openings in a hydrocarbon containing formation is described. The method may include forming or providing a first opening in the formation. A plurality of magnets may be provided into the first opening. The plurality of magnets may be positioned along a portion of the first opening. The plurality of magnets may produce a series of magnetic fields along the portion of the first opening. A second opening in the formation may be formed using magnetic tracking of the series of magnetic fields. The second opening may be spaced a desired distance from the first opening. Alternate embodiments include use of an energized conduit to create a magnetic field. Such energized conduit can be used alone or with the plurality of magnets.

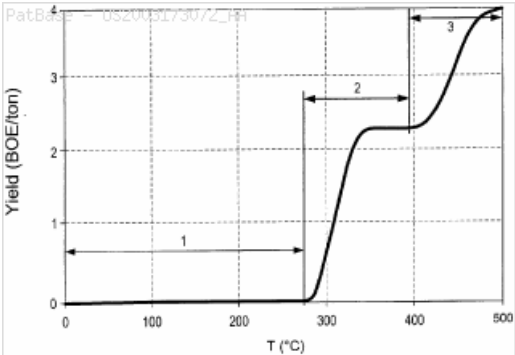
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G01V3/26 (Advanced/Invention)

International (IPC 1-7): E21B43/24

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Y10S210/901 Y10T137/0391

US: 166/66.5 175/45 175/61 175/62 324/346



Family:

Publication number	Publication date	Application number	Application date
US2003173072 AA	20030918	US20020279289	20021024
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Priority:

US20010334568P 20011024

US20010337136P 20011024

US20020374970P 20020424

US20020374995P 20020424

US20020279289 20021024

Probable Assignee: SHELL OIL CO

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

Assignee(s): HARRIS CHRISTOPHER KELVIN ; HARTMANN ROBIN ADRIANUS ; LEPPER GORDON BRUCE ; PRATT CHRISTOPHER ARNOLD ; VINEGAR HAROLD J ; WAGNER RANDOLPH ROGERS

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Title: METHODS AND SYSTEMS FOR HEATING A HYDROCARBON CONTAINING FORMATION IN SITU WITH AN OPENING CONTACTING THE EARTH'S SURFACE AT TWO LOCATIONS

Abstract: In an embodiment, a method for heating a hydrocarbon containing formation may include providing heat from one or more heaters to an opening in the formation. A first end of the opening may contact the earth's surface at a first location and a second end of the opening may contact the earth's surface at a second location. The heat may be allowed to transfer from the opening to at least a part of the formation. The transferred heat may pyrolyze at least some hydrocarbons in the formation. In certain embodiments, providing the heat to the opening may include providing heat, heated materials, and/or oxidation products from at least one heater to the opening.

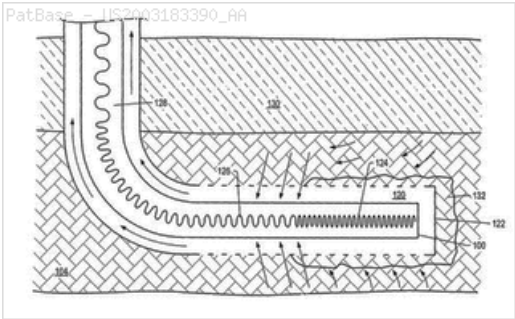
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International (IPC 1-7): E21B36/00

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Family:

Publication number	Publication date	Application number	Application date
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US7063145 BB	20060620	US20020279292	20021024

Priority:

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US20020374995P 20020424 US20020279292 20021024

Probable Assignee: SHELL OIL CO

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

Assignee(s): VEENSTRA PETER ; VINEGAR HAROLD J ; WELLINGTON SCOTT LEE ; DE ROUFFIGNAC ERIC PIERREUS ; KARANIKAS JOHN MICHAEL

Inventor(s): (std): DE ROUFFIGNAC ERIC PIERRE ; DE ROUFFIGNAC ERIC PIERREUS ; KARANIKAS JOHN MICHAEL ; VEENSTRA PETER ; VINEGAR HAROLD J ; WELLINGTON SCOTT LEE

Title: IN SITU RECOVERY FROM A HYDROCARBON CONTAINING FORMATION USING BARRIERS

Abstract: A method is described for inhibiting migration of fluids into and/or out of a treatment area undergoing an in situ conversion process. Barriers in the formation proximate a treatment area may be used to inhibit migration of fluids. Inhibition of migration of fluids may occur before, during, and/or after an in situ treatment process. For example, migration of fluids may be inhibited while heat is provided from heaters to at least a portion of the treatment area. Barriers may include naturally occurring portions (e.g., overburden, and/or underburden) and/or installed portions.

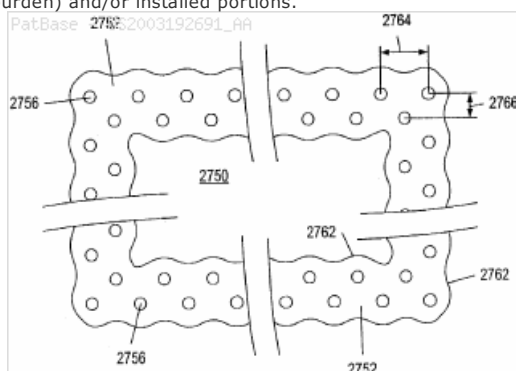
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Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20010334568P 20011024 US20010337136P 20011024 US20020374970P 20020424
US20020374995P 20020424 US20020279291 20021024

Probable Assignee: SHELL OIL CO

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

Assignee(s): WELLINGTON SCOTT LEE ; AYMOND DANNIE ANTOINE ; MAHER KEVIN ALBERT ; MCKINZIE BILLY J ; VINEGAR HAROLD J ; PALFREYMAN BRUCE DONALD ; WATKINS RONNIE WADE ; STEGEMEIER GEORGE LEO ; WARD JOHN MICHAEL

Inventor(s): (std): WELLINGTON SCOTT LEE ; WATKINS RONNIE WADE ; WARD JOHN MICHAEL ; VINEGAR HAROLD J ; STEGEMEIER GEORGE LEO ; PALFREYMAN BRUCE DONALD ; MCKINZIE II BILLY JOHN ; MCKINZIE BILLY J ; MAHER KEVIN ALBERT ; AYMOND JR DANNIE ANTOINE ; AYMOND DANNIE ANTOINE

Title: IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO PRODUCE HEATED FLUIDS

Abstract: A process for utilizing the heat from fluids produced from a hydrocarbon containing formation, which has been treated in situ. The in situ treatment process may include providing heat from one or more heaters to at least a portion of the formation. The heat may be allowed to transfer from one or more heaters to a part of the formation such that heat from the one or more heaters pyrolyzes at least some hydrocarbons within the part of the formation. Hydrocarbons may be produced from the formation. In an embodiment, heat from the produced fluids may be used for other processes. Examples of other processes may include, but are not limited to, hydrotreating, separations, steam cracking, olefin production, etc.

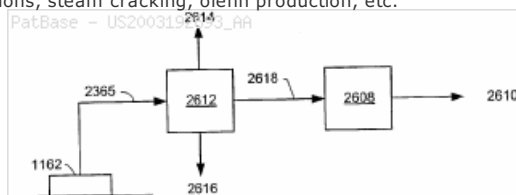
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CPC: E21B41/0064 Y02C10/14

US: 166/267 166/302 208/213 585/648 585/652



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20020374995P 20020424 US20020279290 20021024

Probable Assignee: SHELL OIL CO

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

Assignee(s): SHELL OIL COMPANY ; WELLINGTON SCOTT LEE

Inventor(s): (std): WELLINGTON SCOTT LEE

Title: PRODUCING HYDROCARBONS AND NON-HYDROCARBON CONTAINING MATERIALS WHEN TREATING A HYDROCARBON CONTAINING FORMATION

Abstract: A method for treating a hydrocarbon containing formation is provided. In one embodiment, heat from one or more heaters may be provided to at least a portion of the formation. Heat may be allowed to transfer from the one or more heaters to at least a part of the formation. In certain embodiments, the heat from the one or more heaters may pyrolyze at least some hydrocarbons within the formation. In an embodiment, a first fluid may be introduced into at least a portion of the formation. The portion may have previously undergone an in situ conversion process. A mixture of the first fluid and a second fluid (or a second compound) may be produced from the formation. In some embodiments, a first fluid may be provided to the formation prior to pyrolyzing hydrocarbons in the formation, and a second fluid (or a second compound) may be produced prior to pyrolyzing hydrocarbons in the formation. In some embodiments the second fluid or second compound include minerals, metals, salts, or other compounds that may be recovered.

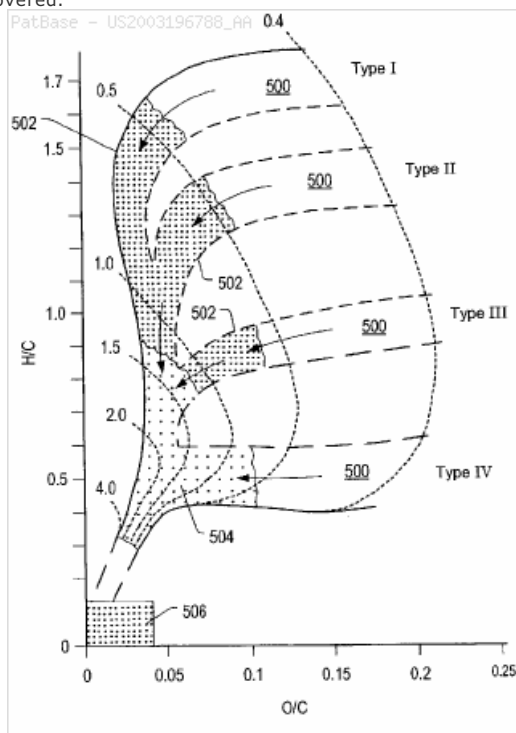
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International (IPC 1-7): E21B36/00

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US: 166/245 166/267 166/272.1 166/272.3 166/302 166/303 166/308 166/57 299/14 299/3 299/5 299/7 423/131 423/208 423/658.5



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Priority:

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Probable Assignee: SHELL OIL CO

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

Assignee(s): WELLINGTON SCOTT LEE ; VINEGAR HAROLD J ; MAHER KEVIN ALBERT ; ROUFFIGNAC ERIC PIERRE DE ; SCHOELING LANNY GENE

Inventor(s): (std): DE ROUFFIGNAC ERIC PIERRE ; MAHER KEVIN ALBERT ; ROUFFIGNAC ERIC PIERRE DE ; SCHOELING LANNY GENE ; VINEGAR HAROLD J ; WELLINGTON SCOTT LEE

Title: IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION VIA BACKPRODUCING THROUGH A HEATER WELL

Abstract: A process for producing hydrocarbons through a heater wellbore positioned in a hydrocarbon containing formation. The in situ treatment process may include providing heat from one or more heaters to at least a portion of the formation. The heat may be allowed, in some embodiments, to transfer from one or more heaters to a selected section of the formation. Heat that is allowed to transfer to the selected section may pyrolyze at least some of the hydrocarbons within the selected section. The process may include, in some embodiments, selectively limiting a temperature proximate a selected portion of a heater wellbore to inhibit coke formation at or near the selected portion. In some embodiments fluids may be produced at certain locations of a heater wellbore such that coke formation is inhibited.

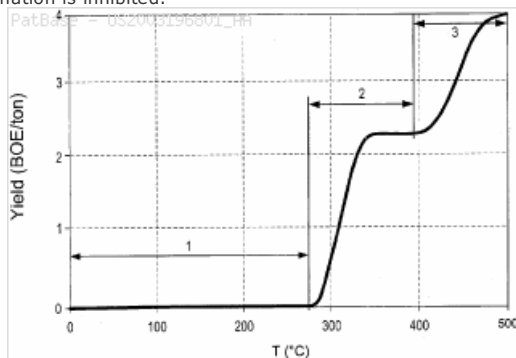
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Family:

Publication number	Publication date	Application number	Application date
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US6932155 BB	20050823	US20020279221	20021024

Priority:

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Probable Assignee: SHELL OIL CO

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

Assignee(s): KARANIKAS JOHN MICHAEL ; ROUFFIGNAC ERIC PIERRE DE ; WELLINGTON SCOTT LEE ; VINEGAR HAROLD J

Inventor(s): (std): DE ROUFFIGNAC ERIC PIERRE ; KARANIKAS JOHN MICHAEL ; WELLINGTON SCOTT LEE ; VINEGAR HAROLD J ; ROUFFIGNAC ERIC PIERRE DE

Title: TREATMENT OF A HYDROCARBON CONTAINING FORMATION AFTER HEATING

Abstract: A method for treating a hydrocarbon containing formation is provided. In one embodiment, heat from one or more heaters may be provided to at least a portion of the formation. Heat may be allowed to transfer from the one or more heaters to at least a part of the formation. In certain embodiments, the heat from the one or more heaters may pyrolyze at least some hydrocarbons in the formation. In an embodiment, a first fluid may be introduced into at least a portion of the formation. The portion may have previously undergone an in situ conversion process. A mixture of the first fluid and a second fluid may be produced from the formation. Such mixture may, in some embodiments, be treated or burned.

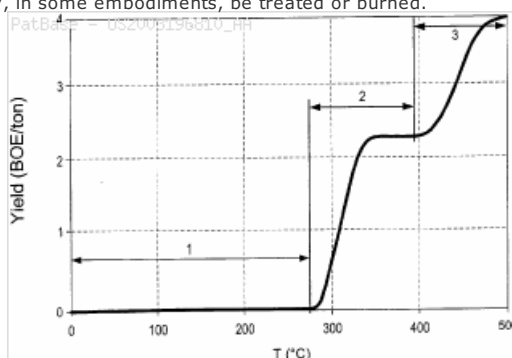
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International (IPC 1-7): E21B43/24

CPC: E21B43/2401 B09C1/02 B09C1/06 B09C2101/00 C10G9/24 C10G45/00 E21B17/028 E21B43/168 E21B43/24 E21B43/243 E21B43/305 E21B47/02208 G01V3/26 Y02P30/30 Y02P30/44 Y10S210/901 Y10T137/0391

US: 166/245 166/285 166/300 166/302 166/305.1 210/901 405/128.48 405/128.5

**Family:**

Publication number	Publication date	Application number	Application date
US2003196810 AA	20031023	US20020279294	20021024
US7128153 BB	20061031	US20020279294	20021024

Priority:

US20010334568P 20011024 US20010337136P 20011024 US20020374970P 20020424
 US20020374995P 20020424 US20020279294 20021024

Probable Assignee: SHELL OIL CO

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

Assignee(s): MADGAVKAR AJAY MADHAV ; MAHER KEVIN ALBERT ; MCKINZIE BILLY JOHN ; PALFREYMAN BRUCE DONALD ; ROUFFIGNAC ERIC PIERRE DE ; VINEGAR HAROLD J ; WELLINGTON SCOTT LEE ; STEGEMEIER GEORGE LEO ; RYAN ROBERT CHARLES ; WARD JOHN MICHAEL

Inventor(s): (std): DE ROUFFIGNAC ERIC PIERRE ; MADGAVKAR AJAY MADHAV ; MAHER KEVIN ALBERT ; MCKINZIE BILLY JOHN ; MCKINZIE II BILLY JOHN ; PALFREYMAN BRUCE DONALD ; ROUFFIGNAC ERIC PIERRE DE ; RYAN ROBERT CHARLES ; STEGEMEIER GEORGE LEO ; VINEGAR HAROLD J ; WARD JOHN MICHAEL ; WELLINGTON SCOTT LEE

Title: IN SITU RECOVERY FROM A HYDROCARBON CONTAINING FORMATION USING ONE OR MORE SIMULATIONS

Abstract: Systems and methods of using a computer system to simulate a process for in situ treatment of a hydrocarbon containing formation are provided. The in situ process may include providing heat from one or more heat sources to at least one portion of the formation. The in situ process may, in some embodiments, include allowing the heat to transfer from the one or more heat sources to a selected section of the formation. In some embodiments, the method may include operating the in situ process using one or more operating parameters. At least one operating parameter of the in situ process may be provided to the computer system. In certain embodiments, at least one parameter may be used with a simulation method and the computer system to provide assessed information about the in situ process.

Classifications:

International (IPC 8-9): B09C1/02 B09C1/06 C10G45/00 C10G9/24 E21B17/02 E21B36/00 E21B43/16 E21B43/24 E21B43/243

E21B43/30 E21B44/00 E21B47/022 G01V3/26 (Advanced/Invention)

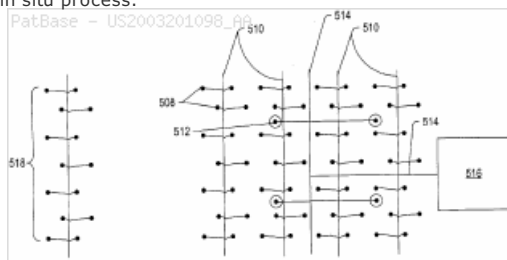
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E21B43/305 E21B47/02208 G01V3/26 Y02P30/30 Y02P30/44

Y10S210/901 Y10T137/0391

US: 166/53 702/12



Family:

Publication number	Publication date	Application number	Application date
US2003201098 AA	20031030	US20020279224	20021024

Priority:

US20010334568P 20011024 US20010337136P 20011024 US20020374970P 20020424
US20020374995P 20020424 US20020279224 20021024

Probable Assignee: SHELL OIL CO

Assignee(s): BERCHENKO ILYA EMIL ; GINESTRA JEAN CHARLES ; HANSEN KIRK SAMUEL ; KARANIKAS JOHN MICHAEL ; ROUFFIGNAC ERIC PIERRE DE ; VINEGAR HAROLD J ; SHAHIN GORDON THOMAS ; SCHOELING LANNY GENE ; SUMNU DINDORUK MELIHA DENIZ ; SHELL OIL CO

Inventor(s): (std): BERCHENKO ILYA EMIL ; GINESTRA JEAN CHARLES ; HANSEN KIRK SAMUEL ; KARANIKAS JOHN MICHAEL ; ROUFFIGNAC ERIC PIERRE DE ; SCHOELING LANNY GENE ; SHAHIN GORDON THOMAS ; SUMNU DINDORUK MELIHA DENIZ ; VINEGAR HAROLD J

Title: IN SITU RECOVERY FROM LEAN AND RICH ZONES IN A HYDROCARBON CONTAINING FORMATION

Abstract: A method for treating lean and rich zones of a hydrocarbon containing formation is provided. In one embodiment, heat from one or more heaters may be provided to at least a portion of the formation. Heat may be allowed to transfer from the one or more heaters to a first part of the formation. In certain embodiments, the heat from the one or more heaters may pyrolyze at least some hydrocarbons within the first part of the formation. The method may include producing a mixture through a second part of the formation. In some embodiments, the produced mixture may include at least some pyrolyzed hydrocarbons from the first part of the formation. In an embodiment, the second part of the formation may have a higher permeability than the first part of the formation.

Classifications:

International (IPC 8-9): B09C1/02 B09C1/06 C10G45/00 C10G9/24

E21B17/02 E21B36/00 E21B43/16 E21B43/24 E21B43/243

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G01V3/26 (Advanced/Invention)

International (IPC 1-7): E21B43/24

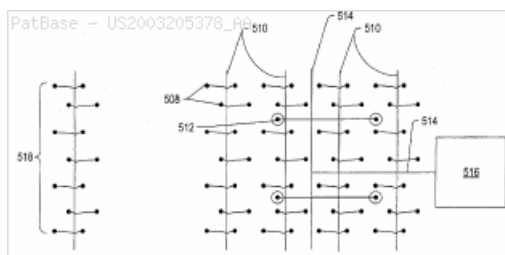
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C10G45/00 E21B17/028 E21B43/168 E21B43/24 E21B43/243

E21B43/305 E21B47/02208 G01V3/26 Y02P30/30 Y02P30/44

Y10S210/901 Y10T137/0391

US: 166/271 166/272.1 166/272.2 166/302 166/308 166/60



Family:

Publication number	Publication date	Application number	Application date
US2003205378 AA	20031106	US20020279222	20021024
US7066257 BB	20060627	US20020279222	20021024

Priority:

US20010334568P 20011024 US20010337136P 20011024 US20020374970P 20020424
US20020374995P 20020424 US20020279222 20021024

Probable Assignee: SHELL OIL CO

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

Assignee(s): VINEGAR HAROLD J ; WELLINGTON SCOTT LEE ; ROUFFIGNAC ERIC PIERRE DE

Inventor(s): (std): DE ROUFFIGNAC ERIC PIERRE ; ROUFFIGNAC ERIC PIERRE DE ; VINEGAR HAROLD J ; WELLINGTON SCOTT LEE

Title: IN SITU RECOVERY FROM A HYDROCARBON CONTAINING FORMATION USING CONDUCTOR-IN-CONDUIT HEAT SOURCES WITH AN ELECTRICALLY CONDUCTIVE MATERIAL IN THE OVERBURDEN

Abstract: In an embodiment, a system may be used to heat a hydrocarbon containing formation. The system may include a conduit placed within an opening in the formation. A conductor may be placed within the conduit. The conductor may provide heat to a portion of the formation. In some embodiments, an electrically conductive material may be coupled to a portion of the conductor in the overburden. The electrically conductive material may lower the electrical resistance of the portion of the conductor in the overburden. Lowering the electrical resistance of the portion of the conductor in the overburden may reduce the heat output of the portion in the overburden. The system may allow heat to transfer from the conductor to a section of the formation.

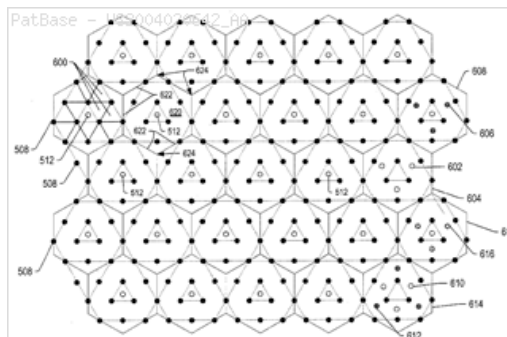
Classifications:

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International (IPC 1-7): E21B43/30

CPC: B09C1/02 B09C1/06 B09C2101/00 E21B17/028 E21B47/02208 G01V3/26

US: 166/245 166/302 392/301



Family:

Publication number	Publication date	Application number	Application date
US2004020642 AA	20040205	US20020279288	20021024
US7165615 BB	20070123	US20020279288	20021024

Priority:

US20010334568P 20011024	US20010337136P 20011024	US20020374970P 20020424
US20020374995P 20020424	US20020279288 20021024	US20020279228 20021024

Probable Assignee: SHELL OIL CO

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

Assignee(s): VINEGAR HAROLD J ; SHELL OIL COMPANY ; BASS RONALD MARSHALL

Inventor(s): (std): BASS RONALD MARSHALL ; VINEGAR HAROLD J

Title: IN SITU PRODUCTION OF A BLENDING AGENT FROM A HYDROCARBON CONTAINING FORMATION

Abstract: An in situ process for treating a hydrocarbon containing formation is provided. The process may include providing heat from one or more heaters to at least a portion of the formation. The heat may be allowed to transfer from the reaction zone to a part of the formation such that heat from one or more heaters pyrolyzes at least some hydrocarbons within the part of the formation. A blending agent may be produced from the part of the formation, wherein a mixture produced with the blending agent has at least one selected property.

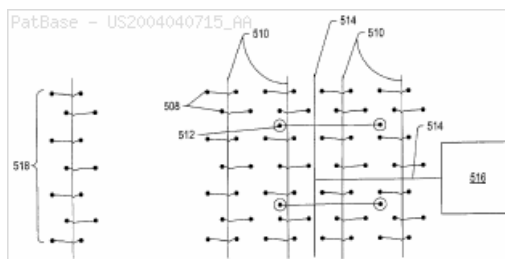
Classifications:

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International (IPC 1-7): E21B43/24

CPC: E21B43/2401 B09C1/02 B09C1/06 B09C2101/00 C10G9/24 C10G45/00 E21B17/028 E21B43/168 E21B43/24 E21B43/243 E21B43/305 E21B47/02208 G01V3/26 Y02P30/30 Y02P30/44 Y10S210/901 Y10T137/0391

US: 137/13 166/272.1 166/279 166/302 166/303 166/310 166/75.12 208/370



Family:

Publication number	Publication date	Application number	Application date
US2004040715 AA	20040304	US20020279227	20021024
US7086465 BB	20060808	US20020279227	20021024

Priority:

US20010334568P 20011024 US20010337136P 20011024 US20020374970P 20020424
US20020374995P 20020424 US20020279227 20021024

Probable Assignee: SHELL OIL CO

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

Assignee(s): KARANIKAS JOHN MICHAEL ; MAHER KEVIN ALBERT ; WELLINGTON SCOTT LEE ; SUMNU DINDORUK MELIHA DENIZ ; VINEGAR HAROLD J

Inventor(s): (std): WELLINGTON SCOTT LEE ; VINEGAR HAROLD J ; SUMNU DINDORUK MELIHA DENIZ ; MAHER KEVIN ALBERT ; KARANIKAS JOHN MICHAEL

Title: IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION

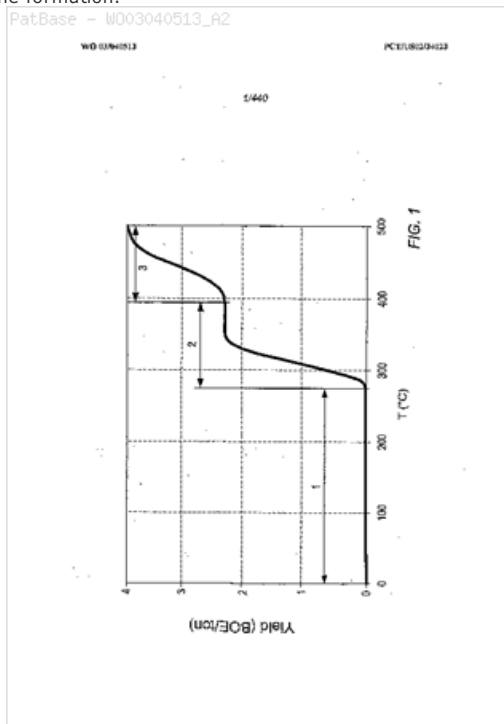
Abstract: An in situ process for treating a hydrocarbon containing formation is provided. The process may include providing heat from one or more heaters to at least a portion of the formation. The heat may be allowed to transfer from the one or more heaters to a part of the formation such that heat from the one or more heat sources pyrolyzes at least some hydrocarbons within the part. Hydrocarbons may be produced from the formation.

Classifications:

International (IPC 8-9): B09C1/02 B09C1/06 C01B3/24 C10G45/00 C10G47/22 C10G49/00 C10G9/24 E21B17/02 E21B36/00 E21B43/16 E21B43/24 E21B43/243 E21B43/295 E21B43/30 E21B43/34 E21B44/00 E21B47/022 G01V3/26 (Advanced/Invention)

CPC: E21B43/2401 B09C1/02 B09C1/06 B09C2101/00 C10G9/24 C10G45/00 E21B17/028 E21B43/168 E21B43/24 E21B43/243 E21B43/305 E21B47/02208 G01V3/26 Y02P30/30 Y02P30/44 Y10S210/901 Y10T137/0391

PatBase - WO03040513_A2



Family:

Publication number	Publication date	Application number	Application date
AU2002349904 AA	20030519	AU20020349904	20021024
AU2002349904 AH	20090730	AU20020349904	20021024
WO03040513 A2	20030515	WO2002US34023	20021024
WO03040513 A3	20090611	WO2002US34023	20021024

Priority:

US20010334568P 20011024 US20010337136P 20011024 US20020374970P 20020424
US20020374995P 20020424 WO2002US34023 20021024

Probable Assignee: SHELL OIL CO

Assignee(s): (std): SHELL CANADA LTD ; SHELL OIL CO

Inventor(s): (std): AYMOND DANNIE ANTOINE JR ; BAI TAIXU ; BASS RONALD MARSHALL ; BAXLEY PHILLIP TEMMONS ; BERCHENKO ILYA EMIL ; BIELAMOWICZ LAWRENCE JAMES ; CARL JR FREDRICK GORDON ; COLE ANTHONY THOMAS ; COLES JOHN MATTHEW ; CRANE STEVEN DEXTER ; DE ROUFFIGNAC ERIC PIERRE ; DEMARTINI DAVID CHARLES ; FOWLER THOMAS DAVID ; HARRIS CHRISTOPHER KELVIN ; HUNSUCKER BRUCE GERARD ; GINESTRA JEAN CHARLES ; GLANDT CARLOS ALBERTO ; HANSEN KIRK SAMUEL ; HARDEVELD ROBERT MARTIJN VAN ; KARANIKAS JOHN MICHAEL ; KEEDY CHARLES ROBERT ; LEPPER GORDON BRUCE ; MADGAVKAR AJAY MADHAV ; MAHER KEVIN ALBERT ; MENOTTI JAMES LOUIS ; MESSIER MARGARET ANN ; MIKUS THOMAS ; PALFREYMAN BRUCE DONALD ; PRATT CHRISTOPHER ARNOLD ; MCKINZIE BILLY JOHN II ; ROBERTS BRUCE EDMUNDS ; ROUFFIGNAC ERIC PIERRE DE ; RYAN ROBERT CHARLES ; SANDBERG CHESTER L ; SCHOELING LANNY GENE ; SHAHIN JR GORDON THOMAS ; SON JAIME S ; STEGEMEIER GEORGE LEO ; VAN HARDEVELD ROBERT MARTIJN ; VEENSTRA PETER ; VINEGAR HAROLD J ; WAGNER RANDOLPH R ; WARD JOHN MICHAEL ; WATKINS RONNIE WADE ; WELLINGTON SCOTT LEE ; ZHANG ETUAN ; STONE FRANCIS M JR ; SUMNU DINDORUK MELIHA DENIZ

Inventor(s): TAIXU BAI ; THOMAS DAVID FOWLER ; THOMAS MIKUS ; STEVEN DEXTER CRANE ; STONE FRANCIS M ; SCOTT LEE WELLINGTON ; RONALD MARSHALL BASS ; RONNIE WADE WATKINS ; MELIHA DENIZ SUMNU DINDORUK ; RANDOLPH R WAGNER ; ROBERT CHARLES RYAN ; ROBERT MARTIJN VAN HARDEVELD ; PETER VEENSTRA ; PHILLIP TEMMONS BAXLEY ; MARGARET ANN MESSIER ; KEVIN ALBERT MAHER ; KIRK SAMUEL HANSEN ; LANNY GENE SCHOELING ; LAWRENCE JAMES BIELAMOWICZ ; HAROLD J VINEGAR ; GORDON BRUCE LEPPER ; ILYA EMIL BERCHENKO ; JAIME S SON ; JAMES LOUIS MENOTTI ; JEAN CHARLES GINESTRA ; JOHN MATTHEW COLES ; JOHN MICHAEL KARANIKAS ; JOHN MICHAEL WARD ; JR FREDRICK GORDON CARL ; JR GORDON THOMAS SHAHIN ; FRANCIS M JR STONE ; GEORGE LEO STEGEMEIER ; AJAY MADHAV MADGAVKAR ; ANTHONY THOMAS COLE ; ERIC PIERRE DE ROUFFIGNAC ; ETUAN ZHANG ; DANNIE ANTOINE JR AYMOND ; DAVID CHARLES DEMARTINI ; CARLOS ALBERTO GLANDT ; CHARLES ROBERT KEEDY ; CHESTER L SANDBERG ; CHRISTOPHER ARNOLD PRATT ; CHRISTOPHER KELVIN HARRIS ; BILLY JOHN II MCKINZIE ; BRUCE DONALD PALFREYMAN ; BRUCE EDMUNDS ROBERTS ; BRUCE GERARD HUNSUCKER

Designated states: AE AG AL AM AT 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 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Title: IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION AND UPGRADING OF PRODUCED FLUIDS PRIOR TO FURTHER TREATMENT

Abstract: An in situ treatment process may include providing heat from one or more heaters to at least a portion of the formation. The heat may be allowed to transfer from the one or more heaters to a part of the formation. A fluid may be produced from at least part of the formation. Heat and/or other products in or from fluids produced from the formation may be used for hydrotreating.

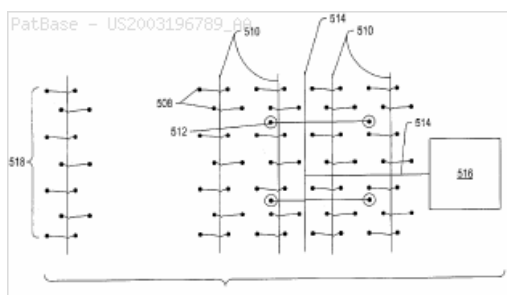
Classifications:

International (IPC 8-9): B09C1/02 B09C1/06 C10G45/00 C10G9/24 E21B17/02 E21B36/00 E21B43/16 E21B43/24 E21B43/243 E21B43/30 E21B44/00 E21B47/022 G01V3/26 (Advanced/Invention)

International (IPC 1-7): E21B43/24

CPC: E21B43/2401 B09C1/02 B09C1/06 B09C2101/00 C10G9/24 C10G45/00 E21B17/028 E21B43/168 E21B43/24 E21B43/243 E21B43/305 E21B47/02208 G01V3/26 Y02P30/30 Y02P30/44 Y10S210/901 Y10T137/0391

US: 166/64



Family:

Publication number	Publication date	Application number	Application date
US2003196789 AA	20031023	US20020279226	20021024

Priority:

US20010334568P 20011024	US20010337136P 20011024	US20020374970P 20020424
US20020374995P 20020424	US20020279226 20021024	

Probable Assignee: SHELL OIL CO

Assignee(s): MADGAVKAR AJAY MADHAV ; RYAN ROBERT CHARLES ; SHELL OIL CO ; WELLINGTON SCOTT LEE

Inventor(s): (std): MADGAVKAR AJAY MADHAV ; RYAN ROBERT CHARLES ; WELLINGTON SCOTT LEE

Title: IN SITU THERMAL PROCESSING OF A HEAVY OIL DIATOMITE FORMATION

Abstract: An in situ process for treating a diatomite formation is provided. The process may include providing heat from one or more heaters to at least a portion of the formation. The heat may be allowed to transfer from the one or more heaters to a part of the formation such that heat from the one or more heat sources pyrolyzes at least some hydrocarbons within the part. Hydrocarbons may be produced from the formation.

Classifications:

International (IPC 8-9): E21B43/24 E21B43/243 E21B43/30

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E21B43/00 E21B43/16 E21B47/00 (Core/Invention)

International (IPC 1-7): E21B43/24

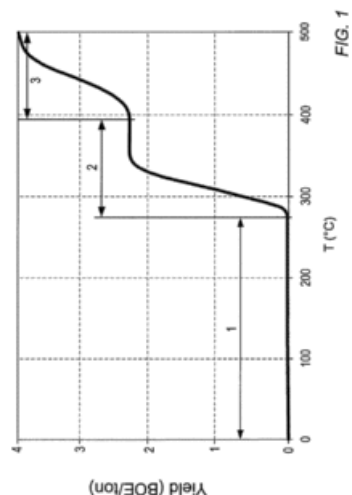
CPC: E21B43/243

European: E21B43/243

US: 166/245 166/250.01 166/272.1 166/272.2 166/302 166/308.1

PatBase - US2003173082_AA

Patent Application Publication Sep. 18, 2003 Sheet 1 of 276 US 2003/0173082 A1



Family:

Publication number	Publication date	Application number	Application date
US2003173082 AA	20030918	US20020279293	20021024
US7104319 BB	20060912	US20020279293	20021024

Priority:

US20010337476P 20011024 US20010338788P 20011024 US20020375011P 20020424
US20020374997P 20020424 US20020279293 20021024

Probable Assignee: SHELL OIL CO

Assignee(s): (std): BERCHENKO ILYA EMIL ; KARANIKAS JOHN MICHAEL ; MAHER KEVIN ALBERT ; ROUFFIGNAC ERIC PIERRE DE ; SHAHIN GORDON THOMAS ; SHELL OIL CO ; VINEGAR HAROLD J ; STEGEMEIER GEORGE LEO ; WELLINGTON SCOTT LEE

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): KARANIKAS JOHN MICHAEL ; MAHER KEVIN ALBERT ; ROUFFIGNAC ERIC PIERRE DE ; SHAHIN GORDON THOMAS ; SHAHIN JR GORDON THOMAS ; STEGEMEIER GEORGE LEO ; VINEGAR HAROLD J ; WELLINGTON SCOTT LEE ; BERCHENKO ILYA EMIL ; DE ROUFFIGNAC ERIC PIERRE

Inventor(s): JR GORDON THOMAS ; SHAHIN

Title: IN SITU THERMAL PROCESSING OF AN OIL RESERVOIR FORMATION

Abstract: An in situ process for treating an oil containing formation is provided. The process may include providing heat from one or more heaters to at least a portion of the formation. The heat may be allowed to transfer from the one or more heaters to a part of the formation such that heat from the one or more heat sources pyrolyzes at least some hydrocarbons within the part. Hydrocarbons may be produced from the formation.

Classifications:

International (IPC 8-9): E21B43/24 E21B43/243 E21B43/40

E21B47/00 (Advanced/Invention);

E21B43/16 E21B43/34 E21B47/00 (Core/Invention)

International (IPC 1-7): E21B43/24

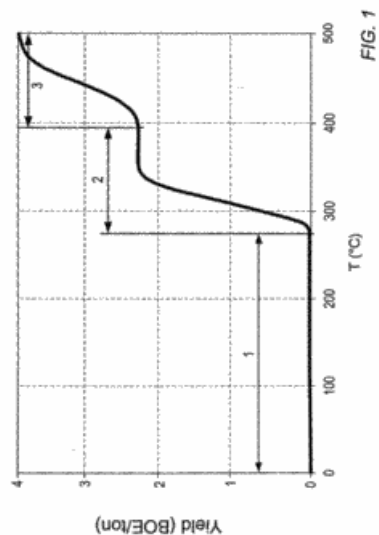
CPC: E21B43/243

European: E21B43/243

US: 166/245 166/250.01 166/263 166/266 166/267 166/272.1
166/272.3 166/272.6 166/272.7 166/302 166/303 166/50

PatBase - US2003173081_AA

Patent Application Publication Sep. 18, 2003 Sheet 1 of 278 US 2003/0173081 A1



Family:

Publication number	Publication date	Application number	Application date
US2003173081 AA	20030918	US20020279230	20021024
US7077199 BB	20060718	US20020279230	20021024

Priority:

US20010338625P 20011024 US20010338695P 20011024 US20020374939P 20020424
US20020374998P 20020424 US20020279230 20021024

Probable Assignee: SHELL OIL CO

Assignee(s): (std): BERCHENKO ILYA EMIL ; DE ROUFFIGNAC ERIC P ; FOWLER THOMAS DAVID ; RYAN ROBERT CHARLES ; SHELL OIL CO ; VINEGAR HAROLD J ; WELLINGTON SCOTT LEE ; ZHANG ETUAN

Assignee(s): SHELL OIL COMPANY

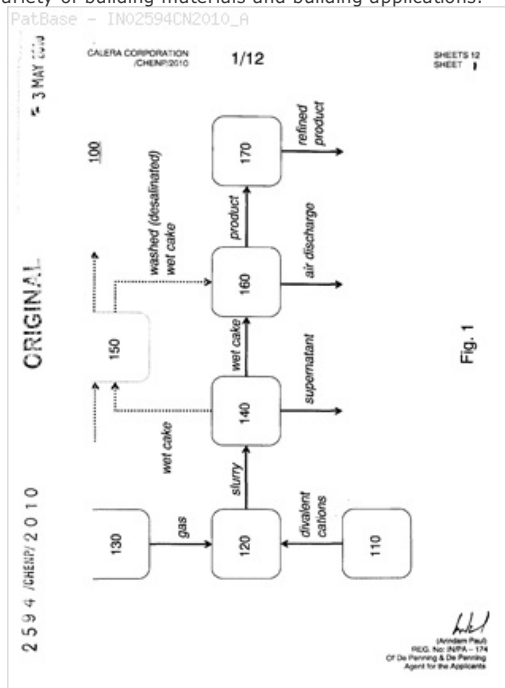
Inventor(s): (std): BERCHENKO ILYA EMIL ; DE ROUFFIGNAC ERIC P ; FOWLER THOMAS DAVID ; RYAN ROBERT CHARLES ; VINEGAR HAROLD J ; WELLINGTON SCOTT LEE ; ZHANG ETUAN

Title: REDUCED-CARBON FOOTPRINT CONCRETE COMPOSITIONS

Abstract: Reduced-carbon footprint concrete compositions, and methods for making and using the same, are provided. Aspects of the reduced-carbon footprint concrete compositions include CO₂-sequestering carbonate compounds, which may be present in the hydraulic cement and/or aggregate components of the concrete. The reduced-carbon footprint concrete compositions find use in a variety of applications, including use in a variety of building materials and building applications.

Classifications:

International (IPC 8-9): C04B7/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
IN02594CN2010 A	20101022	IN2010CN02594	20100503

Priority:

US20080107645P 20081022 WO2009US61748 20091022

Probable Assignee: CALERA CORP

Assignee(s): CALERA CORP

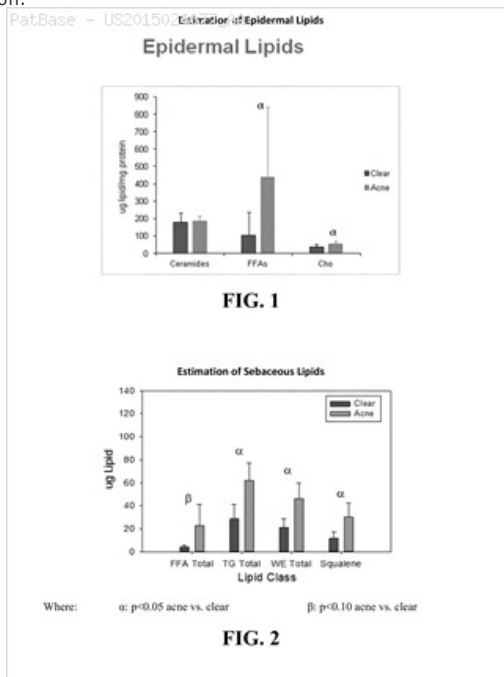
Inventor(s): CONSTANTZ BRENT ; HOLLAND TERENCE ; YOUNGS ANDREW

Title: METHODS OF TREATING A SKIN CONDITION WITH MALVA NEGLECTA

Abstract: The present invention relates to a method of treating a skin condition, particularly improving skin barrier function, improving the appearance of at least one sign of aging in skin, and/or lightening skin, by applying to the skin an extract of *Malva neglecta* topically to the skin in need of treatment. Topical application of non-polar and/or lipophilic extracts of *Malva neglecta* have been found to be particularly effective in improving skin barrier function, improving the appearance of at least one sign of aging in skin, and/or lightening skin. The extract may be applied in a composition further comprising an agent, such as an active cosmetic agent, for further treating the skin condition.

Classifications:

International (IPC 8-9): A61K31/56 A61K31/575 A61K36/00
A61K36/185 A61K36/32 A61K8/63 A61K8/97 A61P17/00 A61P17/10
A61P17/16 A61Q17/00 A61Q17/04 A61Q19/00 A61Q19/02
A61Q19/08 A61Q19/10 A61Q5/02 A61Q5/12
A61Q9/02 (Advanced/Invention);
A61Q17/00 A61Q19/00 (Core/Invention)
CPC: A61K36/185 A61K31/575 A61K36/32 A61Q19/008 A61K8/63
A61K2236/00 A61Q17/00 A61Q17/04 A61Q19/007 A61K8/97
A61Q19/00 A61Q19/02 A61Q19/08
US: 424/725 424/776 514/171



Family:

Publication number	Publication date	Application number	Application date
AU2014203688 AA	20150205	AU20140203688	20140704
AU2014204486 AA	20150205	AU20140204486	20140717
AU2014293311 AA	20150129	AU20140293311	20140722
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BR102014018002 A2	20151006	BR20141018002	20140722
BR102014018008 A2	20151006	BR20141018008	20140722
BR112016001209 A2	20170725	BR20161101209	20140722
BR112016001326 A2	20170725	BR20161101326	20140722
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CN104323931 A	20150204	CN201410347305	20140721
CN104323932 A	20150204	CN201410347322	20140721
CN105407864 A	20160316	CN201480041713	20140722
CN105407865 A	20160316	CN201480041715	20140722
CO7500021 A1	20160129	CO20140158653	20140722
CO7500023 A1	20160129	CO20140158597	20140722
EP2829303 A1	20150128	EP20140177903	20140721
EP3024435 A1	20160601	EP20140750271	20140722
EP3024436 A1	20160601	EP20140750647	20140722
IN01909DE2014 A	20160415	IN2014DE01909	20140709
IN01913DE2014 A	20150619	IN2014DE01913	20140709
IN11425DN2015 A	20160429	IN2015DN11425	20151215
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KR20150011324 A	20150130	KR20140091802	20140721
KR20150011327 A	20150130	KR20140091829	20140721
KR20160033216 A	20160325	KR20167004443	20140722
KR20160034371 A	20160329	KR20167004442	20140722
MX2014008888 A1	20150529	MX20140088888	20140722
MX2014008889 A1	20150527	MX20140088889	20140722
RU2014130009 A	20160210	RU20140130009	20140721
RU2014130012 A	20160210	RU20140130012	20140721
RU2016105476 A	20170829	RU20160105476	20140722
RU2016105743 A	20170829	RU20160105743	20140722
US2015024072 AA	20150122	US20130947473	20130722
US2015024073 AA	20150122	US20130947489	20130722
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Priority:

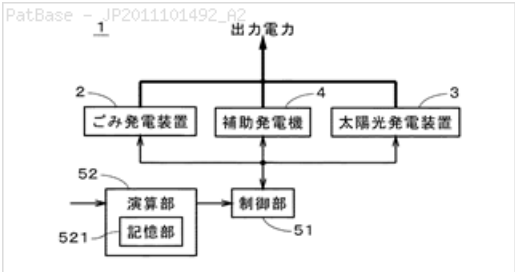
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Probable Assignee: JOHNSON AND JOHNSON CONSUMER INC**Assignee(s):** (std): JOHNSO AND JOHNSON CONSUMER COMPANIES INC ; JOHNSON AND JOHNSON CONSUMER ; JOHNSON AND JOHNSON CONSUMER INC ; JOHNSONAND JOHNSON CONSUMER COMPANIES INC**Assignee(s):** REYNERTSON KURT ; RANDHAWA MANPREET ; SOUTHALL MICHAEL D ; JOHNSON AND JOHNSON CONSUMER COMPANIES LLC ; BATCHVAROVA NIKOLETA ; CHON SUHYOUN ; HU YAPING ; JOHNSON AND JOHNSON CONSUMER COMPANIES INC ; PARSА RAMINE ; PAPPAS APOSTOLOS ; MAHMOOD KHALID**Inventor(s):** (std): APOSTOLOS PAPPAS ; BATCHVAROVA NIKOLETA ; CHON SUHYOUN ; HU YAPING ; KHALID MAHMOOD ; KURT REYNERTSON ; MAHMOOD KHALID ; MANPREET RANDHAWA ; MICHAEL D SOUTHALL ; PAPPAS APOSTOLOS ; PARSА RAMINE ; RAMINE PARSА ; RANDHAWA MANPREET ; REYNERTSON KURT ; SOUTHALL MICHAEL D ; SUHYOUN CHON ; YAPING HU**Inventor(s):** KURT A REYNERTSON ; NIKOLETA BATCHVAROVA**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR; SILVANA MARIA LOPEZ DIAZ; CARPMAELS AND RANSFORD LLP; PLANTZ BERNARD F ET AL**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 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 TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: POWER GENERATION SYSTEM

Abstract: PROBLEM TO BE SOLVED: To stably supply electric power to a waste incineration plant while using photovoltaic power generation. SOLUTION: A power generation system 1 installed in a waste incineration plant includes a waste power generation device 2 which generates power by using energy produced by incinerating waste and a solar power generation device 3 which generates power using a solar cell panel installed in the waste incineration plant. At a calculation unit 52, a predicted curve of generated power for a predetermined period in the solar power generation device 3 based on the prediction of a change of solar radiation intensity is acquired, and based on a different between the predicted curve and a target curve of generated power in the solar power generation device 3, a scheduled curve of generated power in the waste power generation device 2 is determined. By controlling a generated power in the waste power generation device 2 according to the scheduled curve by a control unit 51, the power generation system 1 stably supplies electric power every day even if the power generated in the solar power generation device 3 is insufficient for ideal one because of bad weather.

Classifications:
International (IPC 8-9): H01L31/042 H02J3/00 H02J3/32 H02J3/46 (Advanced/Invention)
CPC: Y02E10/563 Y02E10/566 Y02E70/30
European: Y02E10/56B Y02E10/56D Y02E70/30



Family:

Publication number	Publication date	Application number	Application date
JP2011101492 A2	20110519	JP20090254117	20091105
JP5546206 B2	20140709	JP20090254117	20091105

Priority:
JP20090254117 20091105

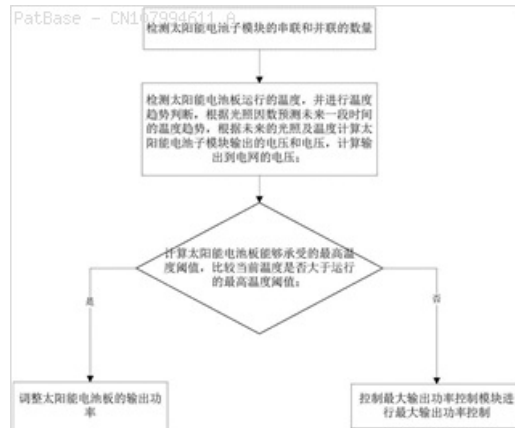
Probable Assignee: HITACHI SHIPBUILDING ENG CO
Assignee(s): (std): HITACHI SHIPBUILDING ENG CO
Assignee(s): HITACHI ZOSEN CORP
Inventor(s): (std): OGAWA KENJI

Title: One kind of maintain stable operation of photovoltaic **power plants** (Machine translation)

Abstract: Source: CN107994611A **Machine translation:** The present invention provides a method of maintaining stable operation of the PV **power plant**, the method comprising the steps of: Detecting the number of series and parallel **solar cell** sub-module; Detect **solar** panel operating temperature, and temperature trends judging, according to the lighting factor **predicted** future period of time the temperature trend, according to the future of light and temperature **calculation** sub-module of the **solar cell** output voltage and output voltage, **calculate** the grid voltage; **Calculate** the **solar** panels can withstand the highest temperature threshold, compares the current temperature is greater than the highest operating temperature threshold; If it is, to adjust the **solar** panels output **power**; If no, the control module to control the maximum output **power** maximum output **power** control. The present invention is capable of temperature control, the output **power** of the **solar power plant**, reducing **solar** panels temperature caused by instability, so that **solar power plant** capable of safe operation.

Classifications:

International (IPC 8-9): H02J3/38 H02J3/46 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN107994611 A	20180504	CN201711338983	20171214

Priority:

CN201711338983 20171214

Probable Assignee:

ZHAO HIGH LYNN

Assignee(s):

ZHAO HIGH LYNN

Title: SUN STROKE MASTER

Abstract: The invention relates to a device for advance detection in real time the possible drop in **power** output of grid connected **solar** photovoltaic **plants** to allow the load distribution centre initiate argumentation of **power** output from grid **power** source and in an alternative resort to staggered load-shedding, the device comprising: a plurality of remotely located field installed test **solar cell** sensors each having an input-output (I/o) module with wireless communication interface located around a grid connected **solar** photovoltaic (SPV) **plant**; a master controller organized in a distributed architecture for receiving, processing and transmitting data; and a load dispatch centre continuously storing grid related data, load distribution data, including historical data on load demand, the load dispatch centre is enabled to control the load supply based on the feedback from the master Controller, wherein the device is enabled to **predict** in advance the possible drop in drop in **Solar power** output based on the acquired data and communicate to the load dispatch centre to argument grid **power** and in alternative plan load shedding to eliminate the grid failure.

Classifications:

International (IPC 8-9): B60T13/68 B60T8/00 B60T8/32 B60T8/40 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN00348KO2013 A	20141003	IN2013KO00348	20130328

Probable Assignee: CENTRAL POWER RESEARCH INST

Assignee(s): CENTRAL POWER RESEARCH INST

Inventor(s): M SIDDHARATHA BHATT