

1) Family number: 43929070 (WO08138118A1)

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Title: A SYSTEM COMPRISING THE GASIFICATION OF FOSSIL FUELS TO PROCESS UNCONVENTIONAL OIL SOURCES

Abstract: A facility comprising integrated systems for the extraction, and optionally upgrading and/or refinement, of unconventional oil sources, using fossil fuels as a primary source of energy. In particular, this facility provides a means to gasify one or more fossil fuels in an efficient manner, converting it into intermediate products such as heat, steam and electricity, which are then used by the system to obtain useful fuel products from unconventional oil sources such as tar sands and oil shale. The design of the components of this facility is optimized such that the overall costs are competitive with an equivalent unconventional oil source processing facility that uses natural gas as a source of processing energy. The facility can be used on its own, may use supplemental natural gas energy sources, or may be used in conjunction with an existing facility that uses natural gas as an energy source in order to improve the overall cost effectiveness of the processing and/or reduce the requirement for other energy sources, such as natural gas.

Classifications:

International (IPC 8-9): C10C3/00 C10G1/04 C10J3/00

C10J3/72 (Advanced/Invention);

C10C3/00 C10G1/00 C10J3/00 (Core/Invention)

International (IPC 1-7): F23G5/38

CPC: C10J3/32 C01B2203/84 C10G1/002 C10G2/30 C10J3/34 C10J3/466

C10J3/482 C10J3/523 C10J3/86 C10J2300/0956 C10J2300/0959

C10J2300/0973 C10J2300/0989 C10J2300/1238 C10J2300/165

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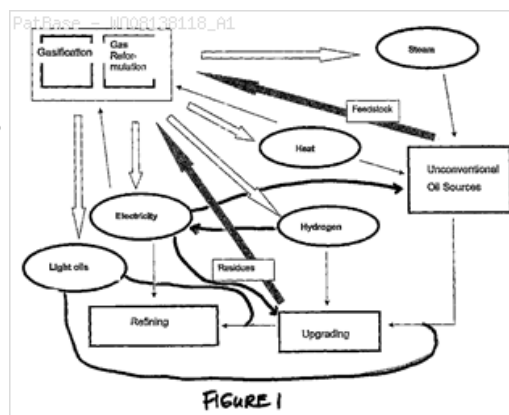
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M01B203/84 M10J300/09F14 M10J300/09F2 M10J300/09F4 M10J300/09H4

M10J300/12H2 M10J300/16F2D M10J300/16F4B Y02E20/16 Y02E20/18

Y02E50/32



Family:

Publication number	Publication date	Application number	Application date
AR066538 AA	20090826	AR2008P102008	20080512
WO08138118 A1	20081120	WO2008CA00883	20080512

Priority:

US20070917410P 20070511	US20070917612P 20070511	WO2007US70456 20070605
US20070950322P 20070717	US20070986212P 20071107	US20070986213P 20071107
WO2008CA00355 20080227	US20080042571P 20080404	

Probable Assignee: PLASCO ENERGY GROUP INC

Assignee(s): (std): BACON MARC ; PLASCO ENERGY GROUP INC ; TSANGARIS ANDREAS

Inventor(s): (std): BACON MARC ; TSANGARIS ANDREAS

Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP

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 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

2) Family number: 43929115 (US2009020456A)

© PatBase

Title: SYSTEM COMPRISING THE GASIFICATION OF FOSSIL FUELS TO PROCESS UNCONVENTIONAL OIL SOURCES

Abstract: A facility comprising integrated systems for the extraction, and optionally upgrading and/or refinement, of unconventional oil sources, using fossil fuels as a primary source of energy. In particular, this facility provides a means to gasify one or more fossil fuels in an efficient manner, converting it into intermediate products such as heat, steam and electricity, which are then used by the system to obtain useful fuel products from unconventional oil sources such as tar sands and oil shale. The design of the components of this facility is optimized such that the overall costs are competitive with an equivalent unconventional oil source processing facility that uses natural gas as a source of processing energy. The facility can be used on its own, may use supplemental natural gas energy sources, or may be used in conjunction with an existing facility that uses natural gas as an energy source in order to improve the overall cost effectiveness of the processing and/or reduce the requirement for other energy sources, such as natural gas.

Classifications:

International (IPC 8-9): C10G35/00 C10G35/24 (Advanced/Invention);

C10G35/00 (Core/Invention)

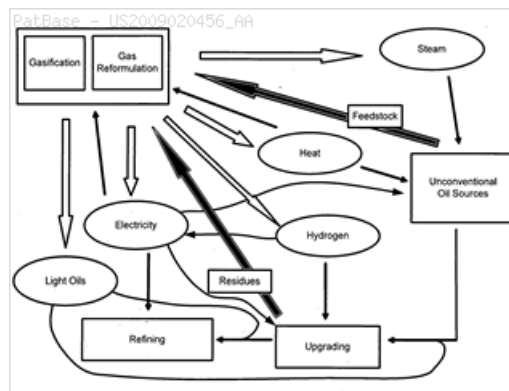
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C10J2300/0973 C10J2300/0989 C10J2300/1238 C10J2300/165

C10J2300/1659 C10K1/04 C10K1/101 F01K23/068 Y02E20/18

European: C10G1/00B C10G2/30 C10J3/32 C10J3/34 C10J3/46D
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M10J300/12H2 M10J300/16F2D M10J300/16F4B Y02E20/16 Y02E20/18
Y02E50/32
US: 208/133 422/105 422/105S



Family:

Publication number	Publication date	Application number	Application date
US2009020456 AA	20090122	US20080119307	20080512

Priority:

US20070917410P 20070511	US20070917612P 20070511	WO2007US70456 20070605
US20070950322P 20070717	US20070986213P 20071107	US20070986212P 20071107
WO2008CA00355 20080227	US20080042571P 20080404	US20080119307 20080512

Probable Assignee: PLASCO ENERGY GROUP INC

Assignee(s): (std): BACON MARC ; TSANGARIS ANDREAS

Assignee(s): CANADIAN WATER PROJECTS INC ; NORTH SHORE POWER GROUP INC ; PLASCO ENERGY GROUP INC

Inventor(s): (std): BACON MARC ; TSANGARIS ANDREAS

Agent(s): MCANDREWS HELD AND MALLOY LTD

3) Family number: 57489235 (US2016046532A)

© PatBase

Title: RETRIEVING AGGREGATES AND POWDERY MINERAL MATERIAL FROM DEMOLITION WASTE

Abstract: A method for retrieving aggregates and/or powdery mineral material from a source material comprising hardened mineral binder and aggregates, in particular a waste or demolition material, comprises the steps of: a) treating the source material in a disintegration process and (b) separation of the treated source material at a predefined cut-off grain size in order to retrieve treated aggregates with a grain size of at least the predefined cut-off grain size and/or in order to retrieve powdery mineral material with a grain size below the predefined cut-off grain size.

Classifications:

International (IPC 8-9): C04B18/16 C04B20/00 C04B20/02 C04B28/02 C04B41/00 (Advanced/Invention)

CPC: C04B41/00 C04B20/0076 C04B20/023 C04B20/026 C04B18/167 C04B28/02 Y02W30/95

US: 106/638 106/816

PatBase - US2016046532_AA

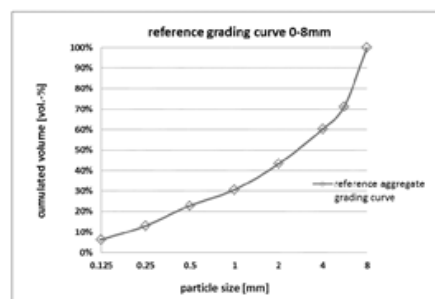


Fig. 1

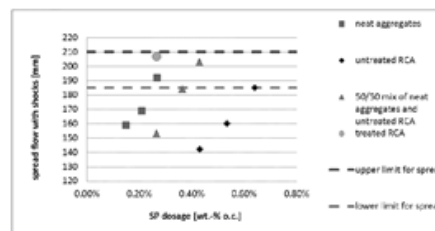


Fig. 2

Family:

Publication number	Publication date	Application number	Application date
CN105102396 A	20151125	CN201480017581	20140326
CN105102396 B	20190122	CN201480017581	20140326
CN109516703 A	20190326	CN201811567958	20140326

DE602014030826 D1	20180920	DE201460030826T	20140326
EP2978724 A1	20160203	EP20140713818	20140326
EP2978724 B1	20180822	EP20140713818	20140326
US2016046532 AA	20160218	US20140778857	20140326
US10029951 BB	20180724	US20140778857	20140326
WO14154741 A1	20141002	WO2014EP56047	20140326

Priority:

EP20130161551 20130328 CN201480017581 20140326 WO2014EP56047 20140326
EP20140713818 20140326

Probable Assignee: SIKA TECHNOLOGY AG

Assignee(s): (std): SIKA TECH AG ; SIKA TECHNOLOGY AG

Inventor(s): (std): EBERHARDT ARND ; GALLUCCI EMMANUEL ; JUILLAND PATRICK

Agent(s): SIKA PATENT ATTORNEYS; OLIFF PLC

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

4) Family number: 43945293 (EP2113494A1)

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Title: CEMENT ADDITIVE, CEMENT COMPOSITION, CEMENT COMPOSITION COMPRISING WASTE MATERIAL, AND PROCESSES FOR MAKING AND USING THE SAME

Abstract: The present invention relates to a cement additive which is based on three different types of zeolites, intended for a cement composition and in particular a construction material comprising waste material. In addition, the present invention relates to methods for preparing and using such a composition. The additive mixture allows the cement to effectively encapsulate waste materials in such a way that the waste material becomes stabilized and the pollutants present therein become immobilized.

Classifications:

International (IPC 8-9): C04B14/04 C04B18/04 C04B28/02 (Advanced/Invention);

C04B18/04 (Advanced/Non-invention);

C04B14/02 C04B18/04 C04B28/00 (Core/Invention);

C04B18/04 (Core/Non-invention)

CPC: Y02W30/91 C04B40/0039 C04B28/02

European: C04B28/02 C04B40/00D4

Family:

Publication number	Publication date	Application number	Application date
AT473947 E	20100715	AT20080155579T	20080502
DE602008001781 D1	20100826	DE200860001781T	20080502
EP2113494 A1	20091104	EP20080155579	20080502
EP2113494 B1	20100714	EP20080155579	20080502

Priority:

EP20080155579 20080502

Probable Assignee: KABA ROSMALEN HOLDING NV

Assignee(s): (std): ANMOROYE BVBA I O ; KABA ROSMALEN HOLDING N V

Assignee(s): KABA ROSMALEN HOLDING NV ; ANMOROYE BVBA IO

Inventor(s): (std): TYAGI YOUVA RAJ ; VAN BAKEL PETRUS KALMAN

Agent(s): HATZMANN MARTIN

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 MK MT NL NO PL PT RO RS SE SI SK TR

5) Family number: 47807525 (US2010312028A)

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Title: MULTIPRODUCT BIOREFINERY FOR SYNTHESIS OF FUEL COMPONENTS AND CHEMICALS FROM LIGNOCELLULOSICS VIA LEVULINATE CONDENSATIONS

Abstract: An integrated method for production of liquid transportation fuels, fuel additives, or chemicals in a biorefinery by the conversion of cellulosic materials is disclosed herein. The method is based on converting a source of C6 sugar such as cellulosic materials and sugars into a mixture of hydrotreated compounds. The biorefinery operates in a unique parallel-processing mode, wherein the initial biomass feedstocks are disassembled to provide substrates for parallel branches whose products may be reassembled in either a condensation step or a mixed hydrotreating step or a final fuel-blending step. The cellulosic materials can be converted to levulinate intermediates that condense with intermediates derived from other processes to produce fuels with the appropriate range of sizes in the target molecular composition, thus generating desirable combustion and physical properties. This method also makes use of methyltetrahydrofuran and other low carbon by-products that are separated for use as amphiphilic solvents. In an embodiment, the method produces cyclic ethers via mild hydrotreating of the condensation products, or long-chain keto ester, useful for plasticizers, by condensing a portion of the levulinate with a reagent containing an unsaturated group. In another embodiment, the method produces a ketal by converting a portion of the condensation product in an acid-catalyzed reaction with a diol.

Classifications:

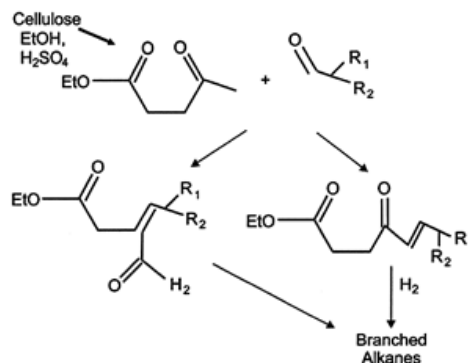
International (IPC 8-9): C07C1/22 C07C1/32 C10G3/00

C10L1/02 (Advanced/Invention)

CPC: C10G3/44 C10G2300/1011 C10G2400/02 C10L1/04 C10G3/42

C10G3/50 C10G2300/1014 C10G2400/04 C10G2400/08 C10L1/08

C10G2300/1096 C10G2400/18 C10G2300/1003 Y02P30/20



Family:

Publication number	Publication date	Application number	Application date
CA2759224 AA	20101209	CA20102759224	20100607
CN102449118 A	20120509	CN201080024135	20100607
EP2438144 A2	20120411	EP20100784233	20100607
EP2438144 A4	20130220	EP20100784233	20100607
US2010312028 AA	20101209	US20100795479	20100607
US2012283493 AA	20121108	US20120413881	20120307
WO10141950 A2	20101209	WO2010US37638	20100607
WO10141950 A3	20110324	WO2010US37638	20100607

Priority:

US20090184456P 20090605 US20100795479 20100607 WO2010US37638 20100607
US20120413881 20120307

Probable Assignee: ENERGY AND ENVIROMENTAL RESEARCH CENTER FOUNDATION

Assignee(s): (std): ENERGY AND ENVIRON RES CT FOUND ; ENERGY AND ENVIRONMENTAL RES CT FOUNDATION ; OLSON EDWIN S ; HEIDE CARSTEN

Assignee(s): ENERGY AND ENVIRONMENTAL RESEARCH CENTER FOUNDATION ; ENERGY AND ENVIRONMENTAL RESEARCH CENTER FOUNDATIO ; ENERGY AND ENVIROMENTAL RESEARCH CENTER FOUNDATION

Inventor(s): (std): CARSTEN HEIDE ; HEIDE CARSTEN ; OLSON EDWIN S

Agent(s): ROBIC; KUHNEN AND WACKER; MERCHANT AND GOULD PC; DALEY DENNIS R

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 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

6) Family number: 45041675 (EP2192095A1)

Title: HYDRAULICALLY BINDING MIXTURE AND PROCESS OF MANUFACTURE

Abstract: Hydraulic binder mixture (I) comprises calcined fine-grained mineral residues from gravel and soil washing plants or construction waste recycling plants and Portland cement. An independent claim is included for the preparation of (I) comprising calcination of fine-grained mineral residues of gravel and soil washing plants or construction waste-recycling plants at 700-1000[deg] C, preferably 800-900[deg] C; and mixing the calcined fine-grained mineral residues with Portland cement.

Classifications:

International (IPC 8-9): C04B18/10 C04B28/02 (Advanced/Invention); C04B18/04 C04B28/00 (Core/Invention)

CPC: C04B28/02

European: C04B28/02

Family:

Publication number	Publication date	Application number	Application date
EP2192095 A1	20100602	EP20080405295	20081201

Priority:

EP20080405295 20081201

Probable Assignee: EBERHARD RECYCLING AG

Assignee(s): (std): EBERHARD RECYCLING AG

Inventor(s): (std): EBERHARD HEINRICH

Agent(s): WIEDMER EDWIN

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 MK MT NL NO PL PT RO
RS SE SI SK TR

Title: METHODS OF MAKING GLASS FROM ORGANIC WASTE FOOD STREAMS

Abstract: The invention introduces new glasses, and new methods for making glass, glass-ceramics, and/or ceramic articles from inorganic compounds extracted from organic waste streams, including food waste streams, agricultural waste streams, and other organic waste streams with high inorganic oxide content. The organic waste stream can also be extended to human and animal wastes. These glasses will have the same, or improved physical, chemical, and mechanical properties as glasses made from mined minerals, however, the methodology disclosed in this invention will produce a renewable and sustainable inorganic product manufactured from organic waste streams.

Classifications:

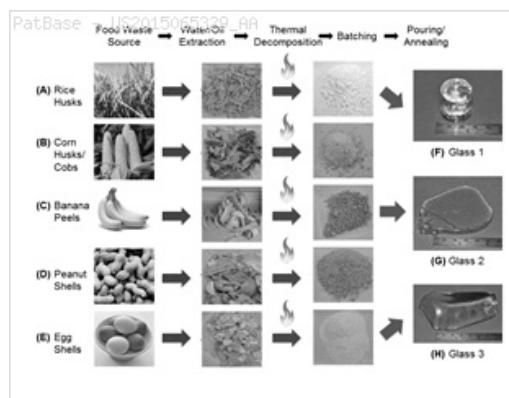
International (IPC 8-9): C03B1/00 C03C3/078

C03C3/097 (Advanced/Invention)

CPC: C03C3/097 C03C1/002 B09B3/005 C03C3/087 C03C10/0009

C03C10/0018 Y02W30/20

US: 501/63 501/72 65/134.8 65/21.5 65/29.11 65/62



Family:

Publication number	Publication date	Application number	Application date
US2015065329 AA	20150305	US20140477458	20140904

Priority:

US20130873696P 20130904 US20140477458 20140904

Probable Assignee: COLORADO SCHOOL OF MINES

Assignee(s): (std): COLORADO SCHOOL OF MINES

Inventor(s): (std): RAMALINGAM SUBRAMANIAN ; REIMANIS IVAR E ; CORNEJO IVAN A

Title: WOOD-CONTAINING CONCRETE COMPOSITION

Abstract: The present invention relates to construction materials and especially to a wood-containing concrete composition. The invention further relates to a method to produce a concrete material, which is particularly suitable as a construction material. The invention also relates to the use of wood and preferably of waste wood in construction materials. The construction material of the invention is considerably lighter than conventional concrete. Additionally, the invention provides an environmentally friendly method to utilise waste wood and to immobilise the pollutants present in the waste wood. In a preferred embodiment, oil sludges can be contacted with the wood particles and be used in the preparation of, e.g., construction materials and as an alternative method of its disposal to the landfills.

Classifications:

International (IPC 8-9): C04B18/26 C04B28/04 C04B40/00 (Advanced/Invention)

CPC: C04B18/26 C04B28/04 C04B40/0039 Y02W30/91 Y02W30/92 Y02W30/97

Family:

Publication number	Publication date	Application number	Application date
DE602013017470 D1	20170330	DE201360017470T	20130328
EP2834204 A1	20150211	EP20130716853	20130328
EP2834204 B1	20170215	EP20130716853	20130328
NL2008581 C	20131007	NL20122008581	20120402
NL2008581 C2	20131007	NL20122008581	20120402
WO13151427 A1	20131010	WO2013NL50230	20130328

Priority:

NL20122008581 20120402 NL20122009604 20121010 EP20130716853 20130328
WO2013NL50230 20130328

Probable Assignee: GEOSMART HOLDING BV

Assignee(s): (std): GREENCEM BV ; MGX OCTROOI BV

Assignee(s): GEOSMART HOLDING BV

Inventor(s): (std): VAN BAKEL PETRUS KALMAN ; TYAGI YOUVA RAJ ; BAKEL PETRUS KA LMA N

Agent(s): JANSSEN CORNELIS MARINUS ; VO ; JANSSEN CM

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 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 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: CAL MAGNESIANA REATIVA COM FOSFATOS E SULFATOS Magnesin CAL FACTOR WITH PHOSPHATE AND SULPHATES
(Machine translation)

convencional, cujas aplicacoes encontram-se em diversas areas da engenharia civil e ou outras industrias. **Machine translation:** Limestone-BASED ALTERNATIVE HYDRAULIC AGGLOMERATING SUMMARY AND RED CERAMIC RESIDUES. The present invention relates to a new method to obtain alternative hydraulic binder, similar to conventional Portland cement produced from limestone, but with common clay exchange extracted from red ceramic nature, for residues of any nature of calcined. Although this residue have already undergone a firing process in olarias, still presents itself as an excellent source of silica, alumina, and iron, which are needed in the composition of a conventional Portland cement-like hydraulic binder. The proposed is done via a mixture of limestone agglomerating with red ceramic residues after homogenization and calcined at temperatures from 1200 degrees centigrade for three hours or more. The resulting calcination product is comminuted together with calcium sulfate hemi-hydrate (CaSCW/ZH₂O) (gypsum or calcined gypsum) in amounts that may vary from 3 percent to 5 percent of its total mass. After its particle size decreased, the same is again homogenized and the resulting product may still have the addition of other components that normally are also used in the manufacture of Portland cement. The final product obtained is a alternative hydraulic binder which can be used in making pastes, mortars and concretes, with or without the use of conventional Portland cement additives commonly used in said applications are in various areas of civil engineering and or other industries.

Classifications:

International (IPC 8-9): C04B7/14 (Advanced/Invention)

International (IPC 1-7): C04B7/14

CPC: Y02P40/143



FIGURA 1. Esquema mostrando as temperaturas de obtenção do ferro aluminato tetraclórico (C₄AF), do silicato dicálcico (C₂S), do aluminato tricálcico (C₃A) e do silicato tricálcico (C₃S) no Cimento Portland Comum e no Aglomerante Hidráulico Alternativo (Fonte: Autor).

Family:

Publication number	Publication date	Application number	Application date
BR102016006236 A2	20170926	BR20161006236	20160322

Priority:

BR20161006236 20160322

Probable Assignee: FUNDACAO UNIV FEDERAL DE MATO GROSSO

Assignee(s): (std): FUNDACAO UNIV FEDERAL DE MATO GROSSO

Assignee(s): FUNDACAO UNIVERSIDADE FEDERAL DE MATO GROSSO

Inventor(s): (std): ALEX NEVES JUNIOR ; ROGERIO BARBOSA DA SILVA

11) Family number: 44813782 (US2011182792A)

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Title: METHOD FOR PRODUCING CATALYST REFORMING TAR-CONTAINING GAS, METHOD FOR REFORMING TAR AND METHOD FOR REGENERATING CATALYST FOR REFORMING TAR-CONTAINING GAS

Abstract: The present invention provides a method for producing a highly active catalyst for reforming tar-containing gas used to treat crude gas for chemical energy conversion consisting of converting to a fuel composition consisting mainly of methane, hydrogen and the like, by utilizing sensible heat possessed by crude gas generated during thermal decomposition of carbonaceous raw materials, and using the high chemical reaction activity of high-temperature tar contained in and incidental to the crude gas to convert the tar to light hydrocarbons in the presence of a catalyst; a tar reforming method; and, a method for regenerating a catalyst for reforming tar-containing gas.

Classifications:

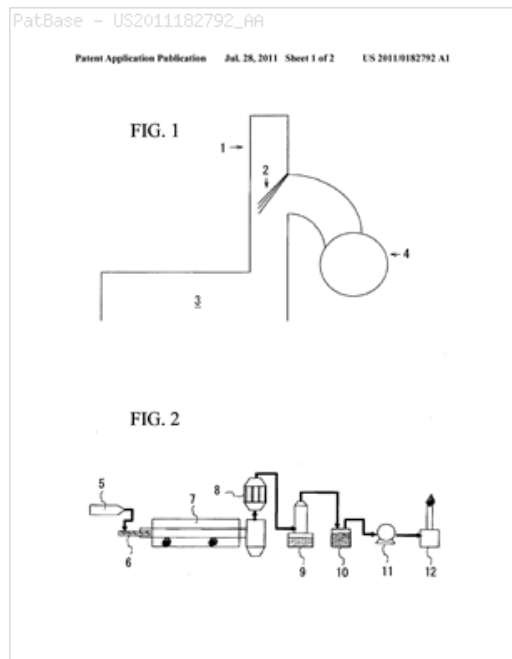
International (IPC 8-9): B01D53/72 B01J20/00 B01J21/04 B01J23/00 B01J23/02 B01J23/06 B01J23/08 B01J23/42 B01J23/58 B01J23/755 B01J23/78 B01J23/94 B01J37/03 B01J37/04 B01J37/08 B01J38/06 B01J38/12 C01B3/40 C07C4/06 C07C9/04 C10B57/18 C10J3/02 C10K1/20 C10K3/02 (Advanced/Invention); B01J23/755 B01J23/94 B01J37/03 C10K1/20 (Advanced/Non-invention); B01J23/755 B01J23/90 B01J38/00 C01B3/00 C10K1/00 (Core/Invention)

International (IPC 1-7): B01J23/755 B01J23/94 B01J38/12 C01B3/40 C10K1/20

CPC: B01J2523/22 B01J2523/31 B01J2523/847 C01B3/40 B01J23/002 B01J23/78 B01J37/031 B01J38/06 B01J38/12 B01J2523/00 C01B2203/1058 C01B2203/1252 C10B57/18 C10K3/02 Y02E20/16 Y02P20/584 Y02P20/52 B01J23/94

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US: 423/245.1 423/245.100S 423/245.3 423/245.300P 502/327 502/328 502/335 502/337 502/340 502/341 502/355 502/355S 502/38 502/38S 502/415 502/439 502/55 502/55S



Family:

Publication number	Publication date	Application number	Application date
BRPI0919345 A2	20151229	BR2009PI19345	20090915

BRPI0919345 B1	20171219	BR2009PI19345	20090915
CN102159313 A	20110817	CN200980136955	20090915
EP2335824 A1	20110622	EP20090815852	20090915
EP2335824 A4	20140903	EP20090815852	20090915
EP2335824 B1	20180328	EP20090815852	20090915
IN275531 B	20160916	IN2011DN02249	20110328
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WO10035430 A1	20100401	WO2009JP04613	20090915

Priority:

JP20080244852 20080924 JP20100530713 20090915 WO2009JP04613 20090915

Probable Assignee: NIPPON STEEL CORP

Assignee(s): (std): FUJIMOTO KENICHIRO ; NIPPON STEEL AND SUMITOMO METAL ; NIPPON STEEL AND SUMITOMO METAL CORP ; NIPPON STEEL CORP ; SUZUKI KIMIHITO

Assignee(s): NIPPON STIL KORPOREJSHN

Inventor(s): (std): SUZUKI KIMIHITO ; FUJIMOTO KENICHIRO ; SUZUKI KIMIKHITO ; FUDZIMOTO KENITIRO ; KENICHIRO FUJIMOTO ; KIMIHITO SUZUKI

Agent(s): VOSSIUS AND PARTNER; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; KENYON AND KENYON LLP; SHIGA MASATAKE ET AL

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 RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

12) Family number: 59468862 (WO15081402A1)

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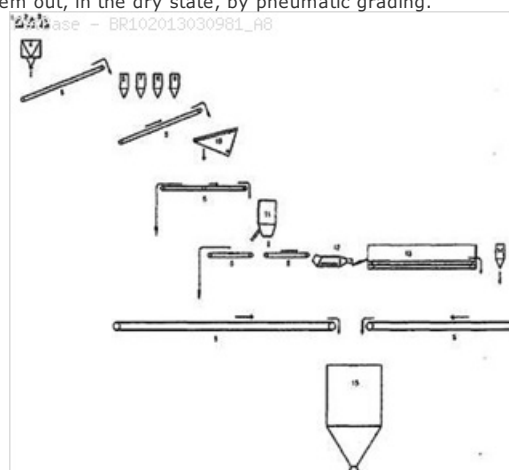
Title: UNIT FOR PRODUCING POZZOLANIC CEMENT OF LOW ENVIRONMENTAL IMPACT, OBTAINED FROM MIXED CONSTRUCTION AND DEMOLITION WASTE (CDW), PROCESS AND RESULTING PRODUCTS FOR CIVIL ENGINEERING

Abstract: Unit for producing pozzolanic cement of low environmental impact, obtained from mixed construction and demolition waste (CDW), and resulting products for civil engineering, which combines the operations of measuring, mixing graded broken pebbles of CDW and urban soil, grinding, calcining and adding lime to form the product, constituted by pozzolanic cement (< 150 micrometres) mixed with broken pebbles of CDW with a particle size below 50 mm, yielding final products with a strength below 25 MPa. The application includes the stationary or mobile recycling plant that combines the separate breaking of the different CDWs (grey, red and mixed), storage of the graded stone pebbles (< 50 mm) obtained together with urban soil waste and waste hydrated lime, it being possible for same to be supplied separately or together. The mixed CDW fines may be simply measured out or thermally activated, it being necessary, in this case, to separate them out, in the dry state, by pneumatic grading.

Classifications:

International (IPC 8-9): B09B3/00 B28C9/02 C04B18/04 C04B18/06 C04B18/16 C04B18/30 C04B7/24 (Advanced/Invention)

CPC: C04B7/24 B09B3/0025 C04B7/246 C04B28/18 C04B2111/00017 Y02P40/145 Y02W30/58 Y02W30/95 B28C9/02



Family:

Publication number	Publication date	Application number	Application date
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BR102013030981 A8	20180529	BR20131030981	20131202
WO15081402 A1	20150611	WO2014BR00428	20141202

Priority:

BR20131030981 20131202

Probable Assignee: INTERCEMENTE BRASIL S A

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ANGELO QUARCIONI ; MARIO SERGIO GUILGE ; GUILGE MARIO SERGIO ; ANGULO SERGIO CIRELI ;
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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 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