

INFORME DE BÚSQUEDA DE PATENTES PARA EL No de Radicación: 14-132629						
CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los boleanos utilizados)						
Palabras clave utilizadas		Syngas, carbon dioxide, method for gasification, method for converting.				
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA		C01B3/24; C01B31/18; C10J3/00				
BASES DE DATOS CONSULTADAS.						
ESPACENET		Patent scope		Patbase		USPTO
INFORMES DE EXÁMENES REALIZADOS EN OTRAS OFICINAS (documentos patentes, literatura no patente etc...)						
Oficina	Fecha del examen o de reporte de búsqueda de documentos	Anterioridades encontradas para el examen o reportados en el examen de búsqueda(relacionarlos todos)	Reiv. afectadas	RELEVANCIA (requisito que afecta)	FUERON TENIDOS EN CUENTA PARA EL EXAMEN EN LA OFICINA COLOMBIANA	
					SI	NO
WIPO	04/04/2013	Process and apparatus for producing a hydrogen-containing gas EP0219163	1-7, 11-20,22, 23, 25-31	Novedad	X	
		Production of carbon monoxide GB873213	1,2, 14-18	Novedad		X
		Integrated gasification process US4353713	1-31	A		X
		Plasma whirl reactor apparatus and methods of use US2003024806	1-31	A		X
		Low-cost process for hydrogen production US5164054	1-31	A		X
DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÚSQUEDA.						
Preparation of syngas WO2007009984						
Production of carbon monoxide in a plasma arc reactor US4190636						
Method for converting natural gas and carbon dioxide to methanol and reducing CO2 emissions US5767165						
Method for gasification of carbon-containing materials by thermal decomposition of methane and conversion of carbon dioxide CA2770290						
Plasma transformer for the transformation of fossil fuels into hydrogen-rich gas WO0109031						
Method and device for forming synthesis gas from biomass and residual materials WO0006671						
Observaciones						
Fecha del reporte de búsqueda:		2/12/2015				

Espacenet - Bibliographic x WO2007009984A1.pdf x 2007009984-Claims-es x 2007009984-Desc-es x 2007009984-Abst-es

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Refine search → Results → WO2007009984 (A1)

Bibliographic data: WO2007009984 (A1) — 2007-01-25

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PREPARATION OF SYNGAS

Page bookmark WO2007009984 (A1) - PREPARATION OF SYNGAS

Inventor(s): ROUTIER AROLD MARCEL ALBERT [NL] ±

Applicant(s): SHELL INT RESEARCH [NL] ROUTIER AROLD MARCEL ALBERT [NL] ±

Classification: - International: C01B3/34; C01B3/38; C10G2/00; C10G49/00; C10J3/00
- cooperative: C01B3/34; C01B3/38; C10G2/32; C10J3/00; C10K3/005; C10K3/023; C01B2203/027; C01B2203/025; C01B2203/062; C01B2203/063; C01B2203/241; C01B2203/141; C10J2300/093; C10J2300/1616; C10J2300/1658

Application number: WO2006EP4358 20060718

Priority number(s): EP20050254535 20050720

Also published as: CN101223103 (A) CN101223103 (B) ZA200710877 (A) US2010113624 (A1) US7863341 (B2) → more

Abstract of WO2007009984 (A1)

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The present invention discloses a process for the preparation of syngas from two sources with different hydrogen : carbon ratios, the first source having a low hydrogen : carbon ratio including any one or a combination of coal, brown coal, peat, bitumen and tar sands, and the second source having a high hydrogen : carbon ratio including any one or a combination of natural gas, associated gas and coal bed methane. The sources are converted to syngas and then combined to provide syngas with an optimum hydrogen : carbon monoxide ratio for use in a Fischer-Tropsch process.

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US4190636 (A)

Bibliographic data: US4190636 (A) — 1980-02-26

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Production of carbon monoxide in a plasma arc reactor

Page bookmark US4190636 (A) - Production of carbon monoxide in a plasma arc reactor

Inventor(s): GIACOBBE FREDERICK [US]; SCHMERLING DONALD W [US] ±

Applicant(s): CHEMETRON CORP [US] ±

Classification: - International: B01J19/08; C01B31/18; (IPC1-7): C01B31/18
- cooperative: B01J19/088; C01B31/18; B01J2219/0844; Y02P20/142; Y10S423/10

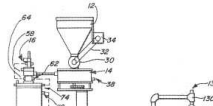
Application number: US19780945991 19780926

Priority number(s): US19780945991 19780926

Abstract of US4190636 (A)

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An improved method of producing carbon monoxide in a plasma arc reactor is disclosed, wherein carbon dioxide is delivered to an arc to form a plasma into which solid carbon is delivered. The products are quenched and filtered to yield carbon monoxide. High yields of carbon monoxide of high purity and high efficiencies of electrical-to-chemical conversion thus may be achieved.



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US5767165 (A)

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Bibliographic data: US5767165 (A) — 1998-06-16

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Method for converting natural gas and carbon dioxide to methanol and reducing CO2 emissions

Page bookmark US5767165 (A) - Method for converting natural gas and carbon dioxide to methanol and reducing CO2 emissions

Inventor(s): STEINBERG MEYER [US]; DONG YUANJII [US] ±

Applicant(s): STEINBERG, MEYER.; DONG, YUANJII

Classification: - international: C01B3/24; C01B3/34; C07C29/151; (IPC1-7): C07C27/06
- cooperative: C01B3/24; C01B3/34; C07C29/151 → more

Application number: US19960583315 19960105

Priority number(s): US19960583315 19960105; US19950405032 19950316

Abstract of US5767165 (A)

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A process for the production of methanol from natural gas containing methane comprising the thermal decomposition of methane and the subsequent reaction of the resulting hydrogen gas with carbon dioxide in a catalyst containing methanol synthesis reactor to produce methanol. Alternative methods include the gasification with carbon dioxide of at least a portion of the carbon produced by the decomposing step, to produce carbon monoxide, which is then reacted with hydrogen gas to produce methanol; or the reforming of a portion of the natural gas feedstock used in the decomposing step with carbon dioxide to produce carbon monoxide and hydrogen gas, which carbon monoxide and hydrogen are then combined with additional hydrogen from the natural gas decomposing step in a methanol synthesis reactor to produce methanol. The methods taught reduce the overall amount of carbon dioxide resulting from the methanol production process.

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CA2770290 (A1)

Bibliographic data

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Bibliographic data: CA2770290 (A1) — 2011-02-10

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METHOD FOR GASIFICATION OF CARBON-CONTAINING MATERIALS BY THERMAL DECOMPOSITION OF METHANE AND CONVERSION OF CARBON DIOXIDE

Page bookmark CA2770290 (A1) - METHOD FOR GASIFICATION OF CARBON-CONTAINING MATERIALS BY THERMAL DECOMPOSITION OF METHANE AND CONVERSION OF CARBON DIOXIDE

Inventor(s): KIM JIN HONG [KR]; LEE SANG HO [KR]; KIM GYUNG ROK [KR]; JEONG IL YONG [KR]; CHOI SUN [KR]; OH SEUNG HOON [KR]; KIM GYOO TAE [KR]; LEE YONG IL [KR] ±

Applicant(s): SK INNOVATION CO LTD [KR] ±

Classification: - international: C10J3/02; C10K3/06
- cooperative: C01B3/24; C10J3/06; C10K1/003; C10K3/06; C01B20/30272; C10J2300/093; C10J2300/096; C10J2300/0973; C10J2300/0999; C10J2300/1658; C10J2300/1665; C10J2300/1907

Application number: CA20102770290 20100803

Priority number(s): KR20090071688 20090804; WO2010KR05191 20100803

Also published as:

WO2011016668 (A2)

WO2011016668 (A3)

US2012241676 (A1)

US8663504 (B2)

KR20110013968 (A1)

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Abstract of CA2770290 (A1)

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The present invention relates to a method for gasification of carbon-containing materials, and more specifically to a method for gasification of carbon-containing materials which allows an increase in carbon efficiency and a reduction in carbon dioxide emission, comprising the steps of gasification of carbon-containing materials in methane, thermal decomposition of CH4 to C and H2, and



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WO0109031 (A1)

Original document: WO0109031 (A1) — 2001-02-08

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PLASMA TRANSFORMER FOR THE TRANSFORMATION OF FOSSIL FUELS INTO HYDROGEN-RICH GAS

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(19) Organización Mundial de la Propiedad Intelectual Oficina internacional

(43) Fecha de publicación internacional 8 de Febrero de 2001 (08.02.2001)

(10) Número de Publicación Internacional WO 01/09031 A1

(51) Clasificación Internacional de Patentes: C01B 3/04, C10G 15/12, H05H 1/24 P 200000027 7 de Enero de 2000 (07.01.2000) ES

(21) Número de la solicitud internacional: PCT/ES00/00040

(71) Solicitante (para todos los Estados designados salvo US): DAVID SYSTEMS TECHNOLOGY, S.L. (ES/ES); Carbonero y Sol, 30, E-28006 Madrid (ES); JIVOTON, Victor, K. (RU/RU); Carbonero y Sol, 30, E-28006 Madrid

(22) Fecha de presentación internacional: 9 de Febrero de 2000 (09.02.2000)

(72) Inventores; e (75) Inventores/Solicitantes (para US solamente): VLAADIMIR, Fyodor (RU/RU); Carbonero y Sol, 30, E-28006 Madrid (ES); POTAPKIN, Boris (RU/RU); Carbonero y Sol, 30, E-28006 Madrid (ES); JIVOTON, Victor, K. (RU/RU); Carbonero y Sol, 30, E-28006 Madrid

(25) Idioma de presentación: español

(26) Idioma de publicación: español

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WO0006671 (A1)

Bibliographic data: WO0006671 (A1) — 2000-02-10

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METHOD AND DEVICE FOR FORMING SYNTHESIS GAS FROM BIOMASS AND RESIDUAL MATERIALS

Page bookmark WO0006671 (A1) - METHOD AND DEVICE FOR FORMING SYNTHESIS GAS FROM BIOMASS AND RESIDUAL MATERIALS

Inventor(s): HEMMES KATRIEN [NL]; VERINGA HUBERTUS JOHANNES [NL] ±

Applicant(s): STICHTING ENERGIE [NL]; HEMMES KATRIEN [NL]; VERINGA HUBERTUS JOHANNES [NL] ±

Classification: - international: C10B53/02; C10J3/12; C10J3/54; C10J3/56; C10J3/58; C10J3/66; (IPC-1:7) C10J3/12; C10J3/54; C10J3/56; C10J3/58; C10J3/66
- cooperative: C10B53/02; C10J3/12; C10J3/54; C10J3/56; C10J3/58; C10J3/66; C10G2300/1011; C10J2300/0916; Y02E50/14; Y02P20/145; Y02P30/20

Application number: WO1999NL00481 19990727

Priority number(s): NL19981009745 19980727

Also published as: EP2002521553 (A), NL1009745 (C2), AU5199299 (A), EP1114128 (A1)

Abstract of WO0006671 (A1)

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The invention relates to a method and device for forming synthesis gas from biomass. In a pyrolysis zone, the biomass is converted into a solid carbonization product (char) and into gaseous pyrolysis products. The gaseous pyrolysis products are burnt in a burner zone and supply the heat for the endothermic

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