

Search history

Search pn= WO2016189044 (Results 1)
1:
Search [SP]: briquette coal fines binder composition comprising one homo- or copolymer of (meth)acrylic acid and one alkyl(meth)acrylate-
2: styrene-copolymer (Results 0)
Search [SP]: briquette comprising coal fines and a binder composition comprising at least one homo or copolymer of meth acrylic acid and at least
3: one alkyl(meth)acrylate-styrene-copolymer (Results 0)
Search [SP]: briquette comprising coal fines and a binder composition (Results 123)
4:
Search IC=(C10L5/14) (Results 1712)
5:
Search pn= 4+5 (Results 0)
6:
Search pn= 4 AND 5 (Results 29)
7:
Search TAC=(briquette and coal and fine and ash and binder) (Results 26)
8:
Search CPC=(C10L5/14 or C10L5/361) (Results 1504)
9:
Search pn = 8 and 9 (Results 4)
10:

1) Family number: 33226584 (ZA200509416A)

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Title: A METHOD FOR MANUFACTURING BRIQUETTES DIRECTLY USING COAL WITH WIDE RANGE OF SIZE,THE METHOD USING THE SAME AND THE APPARATUS USING THE SAME

Abstract: The present invention relates to method for manufacturing coal briquettes directly using coals with wide range of grain size, and the method and the apparatus for manufacturing molten irons using the same. For this, the method for manufacturing coal briquettes of the present invention comprises a step of performing an initial grain size selection of a first coal group to prepare fine coals; a step of mixing a second coal group having a mean reflectance (Rm) of 0.8 or higher into the fine coals; a step of drying mixed coals comprising the fine coals of the first coal group and the second coal group, and performing a secondary grain size selection to the mixed, coals; a step of adding a hardening agent to the mixed coals and mixing the hardening agent and the mixed coals; a step of adding a molasses binder to the mixed coals and mixing the molasses binder and the mixed coals; and a step of manufacturing coal briquettes by molding the mixed coals.

Classifications:

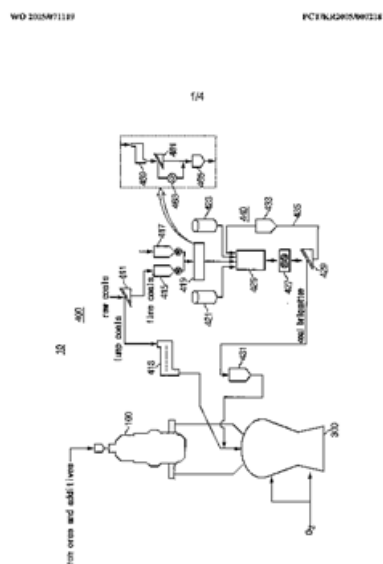
International (IPC 8-9): C10J3/08 C10L5/14 C10L5/36 C21B13/00 C21B13/14 (Advanced/Invention); C21B13/00 (Advanced/Non-invention); C10J3/02 C10L5/00 C21B13/00 C21B13/14 (Core/Invention); C21B (Subclass/Invention)

International (IPC 1-7): C21B13/00

CPC: C21B13/0066 C10J3/08 C10J2300/0903 C10L5/14 C10L5/361 C21B13/002 C21B13/14 Y02P10/136

European: C10J3/08 C10L5/14 C10L5/36B C21B13/00A2B C21B13/00G C21B13/14 M10J300/09B Y02E20/18

PatBase - W005071119_R1



Family:

Publication number	Publication date	Application number	Application date
AT491813 E	20110115	AT20050710830T	20050126
AU2005206455 AA	20050804	AU20050206455	20050126
AU2005206455 BB	20080403	AU20050206455	20050126

BRPI0506128 A	20061024	BR2005PI06128	20050126
BRPI0506128 B1	20180911	BR2005PI06128	20050126
CN102230046 A	20111102	CN201110164538	20050126
CN102230046 B	20130508	CN201110164538	20050126
CN1774514 A	20060517	CN200580000331	20050126
CN1774514 B	20111207	CN200580000331	20050126
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EP1713940 A4	20071205	EP20050710830	20050126
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IN244589 B	20101217	IN2005KN02302	20051118
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WO05071119 A1	20050804	WO2005KR00218	20050126
ZA200509416 A	20061227	ZA20050009416	20051122

Priority:

KR20040004738 20040124 KR20040004738 20040126 EP20050710830 20050126
WO2005KR00218 20050126

Probable Assignee: POSCO

Assignee(s): (std): AHN HO SIK ; BAE JIN CHAN ; HEO NAM HWAN ; KANG CHANG OH ; LEE HOO GEUN ; PARK GEUN DONG ; POHANG IRON AND STEEL CO ; SON CHANG IL ; RYOU JIN HO ; POSCO ; POSKO ; POSCO POHANG ; POSCO CO ; POSCO CO LTD

Inventor(s): (std): JI KANG CHANG OH PARK GEUN DON ; NAM HWAN HEO ; JIN CHAN BAE ; HOO GEUN LEE ; GEUN DONG PARK ; JIN HO RYOU ; CHANG IL SON ; HO SIK AHN ; CHANG OH KANG ; SON CHANG II ; R JU DZHIN KHO ; LI KHU G JUN ; KANG CHANG O ; KHEO NAM KHVAN ; PARK G JUN DONG ; AN KHO SIK ; BAE DZHIN CHAN ; RYOU JIN HO ; SON CHANG IL ; HEO NAM HWAN ; AHN HO SIK ; BAE JIN CHAN ; LEE HOO GEUN ; PARK GEUN DONG ; KANG CHANG OH

Inventor(s): KANG CHANG OH PARK GEUN DONG LEE HOO GEUN BAE JIN ; KANG CHANG-O ; PARK G'JUN DONG ; LI KHU G'JUN ; R'JU DZHIN KHO ; YOU JIN HO ; BAE HOO GEUN ; KANG CHANG OH PARK GEUN DONG LEE HOO GEUN BAE JIN CHAN AHN HO SIK HEO NAM HWAN SON CHANG IL RYOU JIN HO ; KANG CHANG OH PARK GEUN DONG LEE HOO GEUN BAE...

Agent(s): GRIFFITH HACK; WINTER BRANDL FUERNISS HUEBNER ROESS KAISER POLTE PARTNERSCHAFT; FUERNISS PETER; WINTER BRANDL FUERNISS HUEBNER ROESS KAISER POLTE PARTNERSCHAFT MBB

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

2) Family number: 56777686 (WO14098413A1)

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Title: COAL BRIQUETTE AND PRODUCTION METHOD THEREFOR

Abstract: Provided is a production method for coal briquettes which are charged into and rapidly heated in the dome part of a melting and gasification furnace, into which reduced iron is charged, in a molten iron production device comprising the melting and gasification furnace and a reduction furnace which is connected to the melting and gasification furnace and to which the reduced iron is provided. The production method for coal briquettes comprises the steps of i) providing pulverized coal, ii) producing a mixture obtained by the mixing of between 1 and 5 parts by weight of a hardening agent and between 5 and 15 parts by weight of a binder with respect to 100 parts by weight of the pulverized coal, and iii) moulding the mixture. In the step of providing the pulverized coal, the pulverized coal comprises i) more than 0 and no more than 50 wt percent of low-grade coal, and ii) a balance of coal ash. The low-grade coal has between 25 wt percent and 40 wt percent of a volatile fraction (dry basis) and has a crucible swelling number of more than 0 and less than 3.

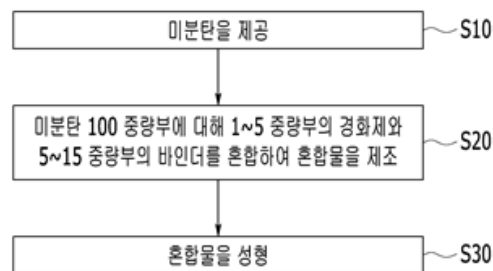
Classifications:

International (IPC 8-9): C10L10/00 C10L5/10 C10L5/36 C10L9/10 C21B13/00 C21B13/02 C21B13/14 (Advanced/Invention)

International (IPC 1-7): C10L10/00 C10L5/10

CPC: C10L9/10 C10L2290/04 C10L2290/24 C10L2290/28 C10L2290/32 C10L5/361 C21B13/002 C21B13/0033 C21B13/0066 C21B13/02 C21B13/14 C10L5/10

PatBase - WO14098413_A1



S10 ... Provide pulverized coal

S20 ... Produce a mixture obtained by the mixing of between 1 and 5 parts by weight of a hardening agent and between 5 and 15 parts by weight of a binder with respect to 100 parts by weight of pulverized coal

S30 ... Mould the mixture

Family:

Publication number	Publication date	Application number	Application date
CN104884586 A	20150902	CN201380066873	20131212
EP2937407 A1	20151028	EP20130864684	20131212
EP2937407 A4	20160810	EP20130864684	20131212
IN05398DN2015 A	20160115	IN2015DN05398	20150619
IN304715 B	20181221	IN2015DN05398	20150619
KR101418053 B1	20140709	KR20120151355	20121221
KR20140081514 A	20140701	KR20120151355	20121221
VN19133 A1	20180625	VN20150002197	20131212
WO14098413 A1	20140626	WO2013KR11549	20131212

Priority:

KR20120151355 20121221 WO2013KR11549 20131212

Probable Assignee: POSCO

Assignee(s): (std): POHANG IRON AND STEEL CO ; POSCO ; POSCO CO LTD

Assignee(s): POSCO CO

Inventor(s): (std): HEO NAM HWAN ; SON CHANG IL ; RYOU JIN HO

Agent(s): ZECH STEFAN MARKUS; YOU ME PATENT AND LAW FIRM

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 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

3) Family number: 22955710 (FR1271827A)

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Title: PROCEDE POUR LE BRIQUETAGE DE HOUILLE HUMIDE BRIQUETTING PROCESS FOR COAL WET (Machine translation)

Abstract: Source: FR1271827A [FR] (Claim 1) 1. Les huiles presentant la teneur en eau courante pour le briquetage possedent une resistance inferieure a celle des memes houilles sans addition d'huile;

Machine translation: (Claim 1) 1. Oils presenting the current moisture content for briquetting possess a resistance lower than that of the same coal without adding oil;

Classifications:

International (IPC 8-9): C10L5/14 (Advanced/Invention);

C10L5/00 (Core/Invention)

CPC: C10L5/14

European: C10L5/14

Family:

Publication number	Publication date	Application number	Application date
FR1271827 A	19610915	FR19600839807	19600928

Priority:

FR19600839807 19600928

Probable Assignee: ERZ AND KOHLEFLOTATION GMBH

Assignee(s): (std): ERZ AND KOHLEFLOTATION GMBH

Assignee(s): ERZ U KOHLEFLOTATION GMBH ; ERZ UND KOHLEFLOTATION G M B H

4) Family number: 19784893 (US1678387A)

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Title: BRIQUETTE AND PROCESS FOR PRODUCING IT

Abstract: 1. A briquette consisting of coal finer than 20-mesh bound by a binder which contains a considerable proportion of oil and also a considerable proportion of sulphite cellulose residues and contains substantially noadded inorganic substance.

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Classifications:

International (IPC 8-9): C10L5/14 (Advanced/Invention);

C10L5/00 (Core/Invention)

CPC: C10L5/14

European: C10L5/14

US: 44/572 44/576

Family:

Publication number	Publication date	Application number	Application date
US1678387 A	19280724	US19260105627	19260430

Priority:

US19260105627 19260430

Probable Assignee: MINERALS SEPARATION NORTH US

Assignee(s): (std): MINERALS SEPARATION NORTH US

Assignee(s): MINERALS SEPARATION NORTH AMER ; MINERALS SEPARATION NORTH AMERICAN CORP

Inventor(s): (std): MARION HALE ROBERT

Inventor(s): HALE ROBERT MARION