

Title (en)

COAL BRIQUETTE MANUFACTURING METHOD AND COAL BRIQUETTE MANUFACTURING APPARATUS

Title (de)

KOHLEBRIKETTHERSTELLUNGSVERFAHREN UND VORRICHTUNG FÜR KOHLEBRIKETTHERSTELLUNGSVORRICHTUNG

Title (fr)

PROCÉDÉ DE FABRICATION DE BRIQUETTES DE CHARBON ET APPAREIL DE FABRICATION DE BRIQUETTES DE CHARBON

Publication

EP 2944681 A4 20160907 (EN)

Application

EP 13868221 A 20131212

Priority

- KR 20120153589 A 20121226
- KR 2013011550 W 20131212

Abstract (en)

[origin: EP2944681A1] A method and an apparatus for manufacturing coal briquettes capable of implementing excellent cold strength and hot strength by separating and crushing coal per each kind of coals are provided. In the manufacturing method of coal briquettes, the coal briquettes are charged into a dome part of a melter-gasifier to be rapidly heated in a manufacturing apparatus of molten iron including i) a melter-gasifier in which reduced iron is charged, and ii) a reducing furnace connected to the melter-gasifier and providing the reduced iron. The manufacturing method of coal briquettes includes: i) providing a plurality of kinds of coal; ii) storing the plurality of kinds of coal, respectively; iii) providing powdered coals by crushing the plurality of kinds of coal, respectively; iv) providing mixtures by mixing the powdered coal, a hardening agent, and a binder; and v) providing coal briquettes by molding the mixture.

IPC 8 full level

C10L 5/10 (2006.01); **C10L 5/26** (2006.01); **C10L 5/36** (2006.01); **C21B 13/00** (2006.01); **C21B 13/14** (2006.01)

CPC (source: EP KR US)

C10L 5/10 (2013.01 - EP KR US); **C10L 5/26** (2013.01 - US); **C10L 5/361** (2013.01 - EP US); **C21B 13/00** (2013.01 - KR); **C21B 13/002** (2013.01 - EP US); **C21B 13/0033** (2013.01 - EP US); **C21B 13/0046** (2013.01 - EP US); **C21B 13/143** (2013.01 - EP US); **C10L 2290/08** (2013.01 - US); **C10L 2290/24** (2013.01 - US); **C10L 2290/28** (2013.01 - US); **C10L 2290/32** (2013.01 - US)

Citation (search report)

- [IY] WO 2005071119 A1 20050804 - POSCO [KR], et al
- [A] US 2008134572 A1 20080612 - CUI BAO TAI [CN]
- [A] WO 2009061210 A1 20090514 - SYRSTAD ANNE [NO], et al
- [A] US 1893417 A 19330103 - GUSTAV KOMAREK, et al
- [Y] JP H069974 A 19940118 - TAIYO TEKKO KK

Citation (examination)

- HERBERT KRUG ET AL: "Beitrag zur Herstellung von Stückkoks aus nicht und, oder schwachbackenden Steinkohlen", BEITRAG ZUR HERSTELLUNG VON STÜCKKOKSEN AUS NICHT- UND, ODER SCHWACHBACKENDEN STEINKOHLN /, 1 January 1984 (1984-01-01), XP055608320, Retrieved from the Internet <URL:https://katalogbeta.slub-dresden.de/id/0-055278035/> [retrieved on 20190724]
- See also references of WO 2014104624A1

Designated contracting state (EPC)

AL AT 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 SM TR

DOCDB simple family (publication)

EP 2944681 A1 20151118; **EP 2944681 A4 20160907**; CN 104884587 A 20150902; CN 104884587 B 20170825; KR 101405478 B1 20140611; US 2015344800 A1 20151203; WO 2014104624 A1 20140703

DOCDB simple family (application)

EP 13868221 A 20131212; CN 201380068412 A 20131212; KR 20120153589 A 20121226; KR 2013011550 W 20131212; US 201314654907 A 20131212