

Title (en)

COAL BRIQUETTES, METHOD AND APPARATUS FOR MANUFACTURING THE SAME, AND METHOD AND APPARATUS FOR MANUFACTURING MOLTEN IRON

Title (de)

KOHLEBRIKETTS, VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG DAVON SOWIE VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON EISENSCHMELZE

Title (fr)

BRIQUETTE DE CHARBON, SON PROCÉDÉ DE FABRICATION, SON DISPOSITIF DE FABRICATION, PROCÉDÉ DE FABRICATION D'ACIER DOUX ET DISPOSITIF DE FABRICATION D'ACIER DOUX

Publication

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Application

EP 15884094 A 20151221

Priority

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- KR 20150137117 A 20150925
- KR 2015014010 W 20151221

Abstract (en)

[origin: EP3266855A1] Provided are briquette coal, a method of manufacturing briquette coal, an apparatus for manufacturing briquette coal, a method of manufacturing molten iron, and an apparatus for manufacturing molten iron. The briquette coal is inputted into and quickly heated in a dome portion of a melting and gasifying furnace in an apparatus for manufacturing molten iron that includes i) a melting and gasifying furnace into which reduced iron is inputted, and ii) a reducing furnace connected to the melting and gasifying furnace to provide the reduced iron. The method of manufacturing briquette coal includes i) providing powdered coal; ii) mixing a powdered cellulose ether compound with the powdered coal and providing a mixture; iii) adding water to the mixture and mixing the mixture with the water; and iv) molding the mixture and providing briquette coal. In the providing of the briquette coal, the amount of cellulose ether compound contained in the briquette coal is 0.7 wt% to 2.0 wt%.

IPC 8 full level

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CPC (source: CN EP)

C10L 5/14 (2013.01 - CN EP); **C10L 5/22** (2013.01 - EP); **C10L 5/28** (2013.01 - EP); **C10L 5/361** (2013.01 - EP); **C10L 2290/02** (2013.01 - EP); **C10L 2290/06** (2013.01 - EP); **C10L 2290/08** (2013.01 - EP); **C10L 2290/146** (2013.01 - EP); **C10L 2290/24** (2013.01 - EP); **C10L 2290/32** (2013.01 - EP); **C10L 2290/36** (2013.01 - EP); **C10L 2290/52** (2013.01 - EP)

Citation (search report)

- [XYI] US 4402895 A 19830906 - COURVOISIER PETER [DE], et al
- [Y] WO 0134734 A1 20010517 - KOREA KUMHO PETROCHEM CO LTD [KR]
- [Y] JP H02270922 A 19901106 - NIPPON JIRYOKU SENKO
- [Y] WO 2006011774 A1 20060202 - POSCO [KR], et al
- [A] DATABASE WPI Week 201336, Derwent World Patents Index; AN 2012-K00764, XP002776226
- See references of WO 2016140428A1

Designated contracting state (EPC)

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