

Title (en)
PROCESS FOR PRODUCING SINTERED ORE AND SINTERING MACHINE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON GESINTERTEM ERZ UND SINTERMASCHINE

Title (fr)
PROCÉDÉ DE FABRICATION D'UN MINÉRAI FRITTÉ ET MACHINE À FRITTER

Publication
EP 2322675 A4 20160727 (EN)

Application
EP 08876783 A 20081202

Priority
• JP 2008072223 W 20081202
• JP 2008212760 A 20080821

Abstract (en)
[origin: EP2322675A1] A method for producing sintered ore includes a charging step of charging a sintering raw material containing ore fines and a carbonaceous material onto a circulating pallet to form a sintering bed of the sintering raw material on the pallet; an ignition step of igniting the carbonaceous material on a surface of the sintering bed using an ignition furnace; a diluted gaseous fuel producing step of producing a diluted gaseous fuel in a concentration of a lower flammable limit concentration or less by supplying a gaseous fuel to air above the sintering bed so as to dilute the gaseous fuel; and a combustion step of combusting the diluted gaseous fuel in the sintering bed by sucking the diluted gaseous fuel and air into the sintering bed by suction through a wind box disposed below the pallet while combusting the carbonaceous material in the sintering bed with the air sucked into the sintering bed, thus forming a sinter cake.

IPC 8 full level
C22B 1/20 (2006.01); **C22B 1/16** (2006.01); **F27B 21/08** (2006.01)

CPC (source: EP KR)
C22B 1/20 (2013.01 - KR); **C22B 1/205** (2013.01 - EP); **F27B 19/00** (2013.01 - KR); **F27B 21/06** (2013.01 - EP)

Citation (search report)
• [XII] FR 2195688 A1 19740308 - SIDERURGIE FSE INST RECH [FR]
• [XAI] EP 0079264 A1 19830518 - SIDERURGIE FSE INST RECH [FR], et al
• [XAI] JP 2006336026 A 20061214 - JFE STEEL KK
• See references of WO 2010021065A1

Cited by
EP3372935A1; CN104169668A; DE102016116645A1; CN106403607A; EP2862949A4; EP2876175A4; EP2876174A4; AU2013291376B2; EP3617334A4; US10995388B2; US9821381B2; WO2018162507A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2322675 A1 20110518; EP 2322675 A4 20160727; EP 2322675 B1 20180307; AU 2008360794 A1 20100225; AU 2008360794 B2 20130307; AU 2008360794 B8 20130328; BR PI0823086 A2 20161108; CN 102131941 A 20110720; CN 102131941 B 20130717; JP 2010047801 A 20100304; JP 4735682 B2 20110727; KR 101387811 B1 20140421; KR 20110042353 A 20110426; TW 201009090 A 20100301; TW I409339 B 20130921; WO 2010021065 A1 20100225

DOCDB simple family (application)
EP 08876783 A 20081202; AU 2008360794 A 20081202; BR PI0823086 A 20081202; CN 200880130830 A 20081202; JP 2008072223 W 20081202; JP 2008212760 A 20080821; KR 20117005604 A 20081202; TW 97146732 A 20081202