

Title (en)
METHOD FOR THE PRODUCTION AND THE MELTING OF LIQUID PIG IRON OR OF LIQUID STEEL INTERMEDIATE PRODUCTS IN A MELT-DOWN GASIFIER

Title (de)
VERFAHREN ZUM HERSTELLEN UND SCHMELZEN VON FLÜSSIGEM ROHEISEN ODER FLÜSSIGEN STAHLVORPRODUKTEN IN EINEM EINSCHMELZVERGASER

Title (fr)
PROCÉDÉ DE FABRICATION ET DE FUSION DE FONTE BRUTE LIQUIDE OU DE DEMI-PRODUITS D'ACIER LIQUIDE DANS UN GAZÉIFICATEUR DE FUSION

Publication
EP 2215418 B1 20121226 (DE)

Application
EP 08849824 A 20081104

Priority
• EP 2008009277 W 20081104
• AT 18242007 A 20071113

Abstract (en)
[origin: CA2705434A1] The present invention relates to a method and an apparatus for the production and the melting of liquid pig iron or of liquid steel intermediate products in a melt-down gasifier, with the introduction of oxygen-containing gas through oxygen nozzles into the solid bed. According to the invention, in the case of at least one oxygen nozzle, at least two gas streams are introduced. As a result, the risk of the fluidization of the solid bed is reduced, and the number of raceways is increased.

IPC 8 full level
C21B 5/00 (2006.01); **C21B 13/00** (2006.01); **F23M 5/02** (2006.01); **F27B 1/16** (2006.01); **F27D 3/16** (2006.01)

CPC (source: EP US)
C21B 5/003 (2013.01 - EP US); **C21B 7/16** (2013.01 - EP US); **F23M 11/042** (2013.01 - EP US); **F27B 1/16** (2013.01 - EP US); **F27D 3/16** (2013.01 - EP US)

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)
AT 506042 A1 20090515; AR 069285 A1 20100113; AU 2008323317 A1 20090522; AU 2008323317 B2 20140109; BR PI0820559 A2 20150616; CA 2705434 A1 20090522; CL 2008003359 A1 20091002; CN 101855506 A 20101006; CN 101855506 B 20140219; EP 2215418 A1 20100811; EP 2215418 B1 20121226; JP 2011503508 A 20110127; KR 20100083837 A 20100722; RU 2010123947 A 20111220; RU 2487948 C2 20130720; TW 200936769 A 20090901; UA 98677 C2 20120611; US 2010294080 A1 20101125; US 8313552 B2 20121120; WO 2009062611 A1 20090522

DOCDB simple family (application)
AT 18242007 A 20071113; AR P080104925 A 20081112; AU 2008323317 A 20081104; BR PI0820559 A 20081104; CA 2705434 A 20081104; CL 2008003359 A 20081112; CN 200880115978 A 20081104; EP 08849824 A 20081104; EP 2008009277 W 20081104; JP 2010533463 A 20081104; KR 20107011947 A 20081104; RU 2010123947 A 20081104; TW 97142436 A 20081104; UA A201005778 A 20081104; US 74247108 A 20081104