

Title (en)
METHOD FOR CHARGING STARTING MATERIAL INTO BLAST FURNACE

Title (de)
VERFAHREN ZUM LADEN EINES AUSGANGSMATERIALS IN EINEN HOCHOFEN

Title (fr)
PROCÉDÉ DE CHARGEMENT D'UNE MATIÈRE PREMIÈRE DANS UN FOURNEAU

Publication
EP 2851436 A4 20150805 (EN)

Application
EP 13790736 A 20130517

Priority
• JP 2012114963 A 20120518
• JP 2013003170 W 20130517

Abstract (en)
[origin: EP2851436A1] A method for charging blast furnace raw material into a blast furnace, comprising, when charging blast furnace raw material including coke and ore material such as sintered ore, pellet, or lump ore into the blast furnace using a rotating chute: charging 60 mass% to 75 mass % of a total amount of coke into the blast furnace in the form of a mixed layer of coke and ore material, while allowing the remaining 25 mass% to 40 mass% of coke to remain as a coke slit. The method advantageously addresses the concern that gas permeability may deteriorate when charging ore material and coke in the form of a mixed layer into the blast furnace.

IPC 8 full level
C21B 5/00 (2006.01)

CPC (source: EP KR)
C21B 5/001 (2013.01 - KR); **C21B 5/006** (2013.01 - EP); **C21B 5/008** (2013.01 - EP KR); **C21B 7/20** (2013.01 - KR); **F27B 1/20** (2013.01 - EP); **C21B 7/20** (2013.01 - EP)

Citation (search report)
• [XAI] JP S6217106 A 19870126 - NIPPON STEEL CORP
• [XAI] JP H03193806 A 19910823 - KAWASAKI STEEL CO
• [XAI] EP 2450459 A1 20120509 - JFE STEEL CORP [JP]
• See references of WO 2013172044A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2851436 A1 20150325; EP 2851436 A4 20150805; EP 2851436 B1 20160914; CN 104302786 A 20150121; JP 5534118 B2 20140625; JP WO2013172044 A1 20160112; KR 101528801 B1 20150615; KR 20150004841 A 20150113; WO 2013172044 A1 20131121

DOCDB simple family (application)
EP 13790736 A 20130517; CN 201380025688 A 20130517; JP 2013003170 W 20130517; JP 2013556695 A 20130517; KR 20147032080 A 20130517