

Title (en)
REDUCED-IRON PRODUCTION METHOD AND PRODUCTION DEVICE

Title (de)
HERSTELLUNGSVERFAHREN UND HERSTELLUNGSVORRICHTUNG FÜR REDUZIERTES EISEN

Title (fr)
PROCÉDÉ ET DISPOSITIF DE PRODUCTION DE FER RÉDUIT

Publication
EP 2937427 A4 20170301 (EN)

Application
EP 12890530 A 20121227

Priority
• KR 20120148940 A 20121218
• KR 2012011650 W 20121227

Abstract (en)
[origin: EP2937427A1] The present invention relates to a reduced-iron production method and production device, and, more specifically, relates to a reduced-iron production method and production device whereby reduced iron having an outstanding rate of reduction is produced by using iron ore containing large amounts of the impurities phosphorus, zinc and alkali elements within the iron ore, while at the same time the phosphorus, zinc and alkali elements are recovered.

IPC 8 full level
C21B 13/10 (2006.01); **C22B 1/16** (2006.01); **C22B 1/24** (2006.01); **C22B 1/245** (2006.01); **C22B 4/08** (2006.01); **C22B 5/10** (2006.01); **C22B 19/00** (2006.01); **C22B 26/00** (2006.01)

CPC (source: EP KR)
C21B 13/006 (2013.01 - EP); **C21B 13/10** (2013.01 - KR); **C22B 1/16** (2013.01 - KR); **C22B 1/24** (2013.01 - EP); **C22B 1/245** (2013.01 - EP); **C22B 4/08** (2013.01 - EP); **C22B 5/10** (2013.01 - EP); **C22B 19/00** (2013.01 - EP); **C22B 26/00** (2013.01 - EP)

Citation (search report)
• [X] DE 2514325 A1 19751009 - OBENCHAIN R F
• [X] EP 2458020 A1 20120530 - KOBE STEEL LTD [JP]
• See references of WO 2014098300A1

Cited by
EP3967412A1; WO2022053568A1

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 2937427 A1 20151028; EP 2937427 A4 20170301; EP 2937427 B1 20200805; AU 2012397402 A1 20150709; AU 2012397402 B2 20161215; BR 112015014606 A2 20170711; BR 112015014606 B1 20181204; CN 104870660 A 20150826; KR 101442920 B1 20140922; KR 20140079224 A 20140626; WO 2014098300 A1 20140626

DOCDB simple family (application)
EP 12890530 A 20121227; AU 2012397402 A 20121227; BR 112015014606 A 20121227; CN 201280077819 A 20121227; KR 2012011650 W 20121227; KR 20120148940 A 20121218