

Title (en)
DEPHOSPHORIZATION METHOD IN THE PROCESS OF SMELTING NI-CR PIG IRON FROM A NICKEL OXIDE ORE

Title (de)
ENTPHOSPHORUNGSMETHODE BEI DEM VERFAHREN DER VERHÜTTUNG VON NI-CR-ROHEISEN AUS EINEM NICKELOXID-ERZ

Title (fr)
ROCÉDÉ DE DÉPHOSPHORISATION DANS UN PROCESSUS DE FONTE EN GUEUSE NI-CR À PARTIR D'UN MINÉRAI D'OXYDE DE NICKEL

Publication
EP 2039788 A1 20090325 (EN)

Application
EP 06775350 A 20060811

Priority
• CN 2006002032 W 20060811
• CN 200610098741 A 20060712

Abstract (en)
A dephosphorization method in the process of smelting Ni-Cr pig iron from a nickel oxide ore comprising basicity of lime, then adding limestone the following steps: adjusting the raw ore to 0.4-0.7 by adding limestone or silicon and coke powder, sintering to obtain sintered ore with basicity of 0.5-0.7, and smelting the sintered ore to obtain Ni-Cr pig iron, in which the amount of the coke powder in the sintering process is 9-17% based on total weight, P content of the coke is not greater than 0.016%, P content of the limestone is not greater than 0.008%, P content of the raw ore is not greater than 0.012%. The P content could be reduced to less than 0.035% in one pass and in low cost without contamination by using the method.

IPC 8 full level
C22B 1/16 (2006.01); **C21B 3/02** (2006.01); **C21B 5/02** (2006.01)

CPC (source: EP)
C21B 13/006 (2013.01); **C21B 13/008** (2013.01); **C21B 13/14** (2013.01); **C22B 1/16** (2013.01); **C22B 5/10** (2013.01); **C22B 23/005** (2013.01); **C22B 23/023** (2013.01)

Cited by
CN109251779A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 2039788 A1 20090325; **EP 2039788 A4 20110223**; CN 101020943 A 20070822; WO 2008009178 A1 20080124

DOCDB simple family (application)
EP 06775350 A 20060811; CN 2006002032 W 20060811; CN 200610098741 A 20060712