

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 to 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.

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Cited by
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