

Title (en)  
STEEL MANUFACTURING METHOD USING CONVERTER

Title (de)  
STAHLHERSTELLUNG IM KONVERTER

Title (fr)  
PROCEDE DE PRODUCTION ET D'ACIER AU MOYEN D'UN CONVERTISSEUR

Publication  
**EP 0714989 A4 19970625 (EN)**

Application  
**EP 94919835 A 19940630**

Priority

- JP 9401070 W 19940630
- JP 16256493 A 19930630
- JP 16579093 A 19930705
- JP 32908693 A 19931224
- JP 32908893 A 19931224
- JP 1102794 A 19940202

Abstract (en)  
[origin: WO9501458A1] A method of efficiently carrying out the dephosphorization, dephosphorization-decarbonization, or desulfurization-dephosphorization-decarbonization of molten iron in a converter. The feed rates of flux and a bottom-blowing gas are regulated so that bottom-blowing agitation power of not less than 0.1 kW/t, a CaO/SiO<sub>2</sub> of treated slag of 0.7-2.5, and a temperature at a treatment terminal point of 1200-1450 DEG C can be attained. A control operation is carried out so that the sum of the concentration of T.Fe and that of MnO in treated slag becomes 10-35 wt.%, by regulating a top blowing acid feed rate, a flow rate of a bottom blowing gas, or the height of a top blowing lance.

IPC 1-7  
**C21C 5/28**

IPC 8 full level  
**C21C 1/02** (2006.01); **C21C 5/28** (2006.01); **C21C 5/30** (2006.01); **C21C 5/35** (2006.01); **C21C 5/56** (2006.01); **C21C 7/064** (2006.01)

CPC (source: EP KR)  
**C21C 1/02** (2013.01 - EP); **C21C 5/28** (2013.01 - EP); **C21C 5/34** (2013.01 - KR); **C21C 5/35** (2013.01 - EP); **C21C 5/567** (2013.01 - EP); **C21C 7/064** (2013.01 - EP KR); **C21C 7/068** (2013.01 - KR); **F27D 2019/0075** (2013.01 - KR); **F27D 2019/0078** (2013.01 - KR); **F27D 2027/002** (2013.01 - KR)

Citation (search report)

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- [X] GB 2072221 A 19810930 - NIPPON STEEL CORP
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- [X] FR 2558482 A1 19850726 - SIDERURGIE FSE INST RECH [FR]
- [XD] PATENT ABSTRACTS OF JAPAN vol. 016, no. 277 (C - 0954) 22 June 1992 (1992-06-22)
- See references of WO 9501458A1

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Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**WO 9501458 A1 19950112**; AU 680268 B2 19970724; AU 7083194 A 19950124; BR 9406985 A 19960305; CA 2166097 A1 19950112; CA 2166097 C 20020115; CN 1041843 C 19990127; CN 1128050 A 19960731; DE 69423630 D1 20000427; DE 69423630 T2 20001109; EP 0714989 A1 19960605; EP 0714989 A4 19970625; EP 0714989 B1 20000322; ES 2143547 T3 20000516; KR 0159180 B1 19990115; KR 960703440 A 19960817

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**JP 9401070 W 19940630**; AU 7083194 A 19940630; BR 9406985 A 19940603; CA 2166097 A 19940630; CN 94192953 A 19940630; DE 69423630 T 19940630; EP 94919835 A 19940630; ES 94919835 T 19940630; KR 19950705930 A 19951227