

Title (en)  
A BLAST FURNACE

Publication  
**EP 0273420 A3 19880803 (EN)**

Application  
**EP 87119248 A 19871228**

Priority  
• JP 22287 A 19870106  
• JP 185387 A 19870109  
• JP 30913386 A 19861227

Abstract (en)  
[origin: EP0273420A2] A blast furnace comprising: a blast furnace body (11); tuyeres (12) set in a lower part of the blast furnace body through which tuyeres gas or 40 vol.% or more oxygen is blown in; and blow-in inlets (13) for preheating gas set in a range of 0.15 to 0.60 downward from a stock line (14) of the blast furnace body where the distance between the stock line and a tuyere nose level (15) equals 1. The blow-in inlets are set in one or multiple levels of the blast furnace body, and slope downward with an angle of 20 to 50 DEG with regard to the horizontal level for introducing preheating gas. The blow-in inlets are equipped with burners having fuel gas supply pipes, oxygen supply pipes and gas control pipes for temperature control gas.

IPC 1-7  
**C21B 5/00**

IPC 8 full level  
**C21B 5/00** (2006.01)

CPC (source: EP KR)  
**C21B 5/00** (2013.01 - EP); **C21B 7/00** (2013.01 - KR)

Citation (search report)  
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Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0273420 A2 19880706; EP 0273420 A3 19880803; EP 0273420 B1 19930922;** AU 596253 B2 19900426; AU 8294687 A 19880630; CN 1007161 B 19900314; CN 87105991 A 19880727; DE 3787518 D1 19931028; DE 3787518 T2 19940310; KR 880007746 A 19880829; KR 930004473 B1 19930527

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