

Title (en)  
BLAST FURNACE OPERATION PROCESS

Publication  
**EP 0182730 B1 19900912 (FR)**

Application  
**EP 85440065 A 19851107**

Priority  
FR 8418075 A 19841121

Abstract (en)  
[origin: US4707183A] A blast furnace, especially for the production of hot metal for the steel industry and operated with a normal charge above the tuyere blast zone, has its hot metal production increased at least temporarily by a lateral injection of metal oxides into the zone. A supply of the thermal energy requirements for the smelting reduction of these metal oxides by electrically operated plasma torches, and the compensation of a overoxygenation resulting from the oxygen contribution of these metal oxides by the introduction of nitrogen.

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

IPC 8 full level  
**C21B 5/00** (2006.01); **C21B 5/02** (2006.01)

CPC (source: EP US)  
**C21B 5/002** (2013.01 - EP US); **C21B 5/023** (2013.01 - EP US)

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**EP 85440065 A 19851107**; AT 85440065 T 19851107; BR 8505820 A 19851120; CA 495796 A 19851120; DE 3579672 T 19851107; FR 8418075 A 19841121; JP 26099185 A 19851120; SU 3976890 A 19851120; US 80046585 A 19851121; ZA 858727 A 19851113