

Title (en)

METHOD FOR PRODUCING DIRECTLY REDUCED METAL IN A MULTI-TIERED FURNACE

Title (de)

VERFAHREN ZUM HERSTELLEN VON DIREKT REDUZIERTEM METALL IN EINEM ETAGENOFEN

Title (fr)

PROCEDE DE PRODUCTION DE METAL DIRECTEMENT DESOXYDE DANS UN FOUR A ETAGES

Publication

EP 1115890 A1 20010718 (DE)

Application

EP 99947270 A 19990830

Priority

- EP 9906381 W 19990830
- LU 90291 A 19980923

Abstract (en)

[origin: WO0017404A1] The invention relates to a method for producing directly reduced metal in a multi-tiered furnace, whereby metal oxides and a reducing agent are inserted into the furnace and the process heat required for the reduction of the metal oxides is generated by indirect heating of the individual tiers of said furnace.

IPC 1-7

C21B 13/10; F27B 9/18

IPC 8 full level

C21B 13/10 (2006.01); **C22B 1/16** (2006.01); **C22B 5/10** (2006.01); **C22B 7/02** (2006.01); **C22B 19/30** (2006.01); **F27B 9/18** (2006.01); **F27D 11/02** (2006.01)

CPC (source: EP KR)

C21B 13/10 (2013.01 - EP KR); **C21B 13/105** (2013.01 - EP); **F27B 9/185** (2013.01 - EP); **Y02P 10/134** (2015.11 - EP)

Citation (search report)

See references of WO 0017404A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0017404 A1 20000330; AU 6079499 A 20000410; BR 9914460 A 20010522; CA 2343212 A1 20000330; CN 1319143 A 20011024; CZ 20011042 A3 20011017; EP 1115890 A1 20010718; JP 2002526652 A 20020820; KR 20010075318 A 20010809; LU 90291 B1 20000324; PL 346835 A1 20020225; SK 3942001 A3 20011203; TR 200101480 T2 20010921; TW 459049 B 20011011; ZA 200102128 B 20020614

DOCDB simple family (application)

EP 9906381 W 19990830; AU 6079499 A 19990830; BR 9914460 A 19990830; CA 2343212 A 19990830; CN 99811116 A 19990830; CZ 20011042 A 19990830; EP 99947270 A 19990830; JP 2000574302 A 19990830; KR 20017003722 A 20010323; LU 90291 A 19980923; PL 34683599 A 19990830; SK 3942001 A 19990830; TR 200101480 T 19990830; TW 88103148 A 19990302; ZA 200102128 A 20010314