

Title (en)
DIRECT REDUCTION METHOD FOR IRON ORES

Publication
EP 0090438 B1 19850828 (DE)

Application
EP 83200255 A 19830219

Priority
DE 3210232 A 19820320

Abstract (en)
[origin: US4443250A] Fine-grained material which contains iron oxide is prereduced in a fluidized bed and is subsequently completely reduced in a rotary kiln. In order to avoid agglomeration and incrustation in the rotary kiln, the prereduction is carried out to effect a metallization of 50 to 80%.

IPC 1-7
C21B 13/08

IPC 8 full level
C21B 13/08 (2006.01); **C21B 13/14** (2006.01)

CPC (source: EP US)
C21B 13/08 (2013.01 - EP US); **C21B 13/146** (2013.01 - EP US)

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 0090438 A1 19831005; EP 0090438 B1 19850828; AU 1266483 A 19830922; AU 556203 B2 19861023; CA 1204943 A 19860527; DE 3210232 A1 19830922; DE 3360636 D1 19851003; IN 158419 B 19861115; NO 159864 B 19881107; NO 159864 C 19890215; NO 830733 L 19830921; NZ 203437 A 19850131; PH 20105 A 19860929; US 4443250 A 19840417; ZA 831901 B 19841031

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EP 83200255 A 19830219; AU 1266483 A 19830318; CA 423928 A 19830318; DE 3210232 A 19820320; DE 3360636 T 19830219; IN 707CA1982 A 19820618; NO 830733 A 19830303; NZ 20343783 A 19830302; PH 28668 A 19830318; US 41795882 A 19820914; ZA 831901 A 19830318