

Title (en)
ARRANGEMENT FOR A GASIFIER AND DIRECT REDUCTION FURNACE

Publication
EP 0166679 B1 19880113 (DE)

Application
EP 85730074 A 19850529

Priority
DE 3422185 A 19840612

Abstract (en)
[origin: US4605205A] In the case of an arrangement comprising a gasifier and a direct reduction shaft furnace positioned above it and which is connected to the gasifier by a connecting shaft, the direct introduction of the reduction gas obtained in the gasifier, even in the case of a high dust proportion, is made possible in that the sponge iron particles are discharged through several radially positioned screw conveyors and the reduction gas is fed to an annular zone formed above the screw conveyors.

IPC 1-7
C21B 13/14; **F27B 1/20**

IPC 8 full level
C10J 3/02 (2006.01); **C10J 3/12** (2006.01); **C21B 13/02** (2006.01); **C21B 13/14** (2006.01); **F27B 1/20** (2006.01); **F27B 1/21** (2006.01)

CPC (source: EP KR US)
C21B 13/002 (2013.01 - EP US); **C21B 13/14** (2013.01 - EP KR US); **F27B 1/20** (2013.01 - EP US)

Cited by
EP2586877A4; EP3255157A1; RU2740743C2; US6086653A; EP0299231A1; AU748791B2; DE19750773A1; DE19750773C2; AT406299B; CN1071381C; EP3255158A1; RU2715932C1; US6391249B1; US11697855B2; US6224647B1; WO9746719A1; WO9828448A1; WO2017211956A1; US8124005B2; US8361190B2; US6213762B1; US11773459B2; WO9911825A1; WO9821537A1; WO9904045A1; WO2017211939A1

Designated contracting state (EPC)
AT BE DE FR GB IT LU NL SE

DOCDB simple family (publication)
EP 0166679 A1 19860102; **EP 0166679 B1 19880113**; AT E31942 T1 19880115; AU 4283285 A 19851219; AU 585858 B2 19890629; BR 8502778 A 19860218; CA 1241833 A 19880913; CN 1004706 B 19890705; CN 85104511 A 19870708; CS 277403 B6 19930317; CS 425585 A3 19920115; DD 235269 A5 19860430; DE 3422185 A1 19851212; DE 3422185 C2 19870924; DE 3561401 D1 19880218; IN 163456 B 19880924; JP H0585607 B2 19931208; JP S613813 A 19860109; KR 860000356 A 19860128; KR 930001947 B1 19930320; SU 1466653 A3 19890315; US 4605205 A 19860812; ZA 853988 B 19860129

DOCDB simple family (application)
EP 85730074 A 19850529; AT 85730074 T 19850529; AU 4283285 A 19850524; BR 8502778 A 19850611; CA 483652 A 19850611; CN 85104511 A 19850612; CS 425585 A 19850612; DD 27726585 A 19850611; DE 3422185 A 19840612; DE 3561401 T 19850529; IN 400CA1985 A 19850525; JP 12525485 A 19850611; KR 850004127 A 19850612; SU 3903103 A 19850607; US 74364085 A 19850611; ZA 853988 A 19850527