

Title (en)

METHOD AND DEVICE FOR FEEDING A GAS TO A METALLURGICAL VESSEL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KONTROLLIERTEN EINDÜSEN EINES GASES IN EIN METALLURGISCHES GEFÄSS

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT D'INTRODUIRE UN GAZ DANS UN RECIPIENT METALLURGIQUE

Publication

EP 1242636 A1 20020925 (DE)

Application

EP 00993529 A 20001107

Priority

- AT 214699 A 19991220
- EP 0010964 W 20001107

Abstract (en)

[origin: US6802887B1] A method is for feeding a gas into a metallurgical vessel having a condensable and/or evaporable component entrained by the gas. The gas is fed to the metallurgical vessel via one or more gas supply means. According to the method, if there are a number of the gas supply means, in a first section, the gas velocity is continuously increased, in a turbulence zone, the gas is intimately mixed with the condensable and/or evaporable component, in an exit section, the gas velocity is kept substantially constant, and the gas which has been intimately mixed with the entrained component is blown into the metallurgical vessel. A gas supply device for carrying out the method is also disclosed. The method and apparatus according to the invention make it possible to prevent or reduce nozzle damage.

IPC 1-7

C21C 5/46; **C21C 5/48**; **C21B 7/16**; **C21B 13/00**; **F27D 3/16**; **F27B 3/22**; **F23D 11/38**

IPC 8 full level

C21B 5/00 (2006.01); **C21B 7/16** (2006.01); **C21B 13/00** (2006.01); **C21C 5/46** (2006.01); **F27B 3/22** (2006.01); **F27D 3/16** (2006.01)

CPC (source: EP KR US)

C21B 5/00 (2013.01 - EP US); **C21B 7/16** (2013.01 - EP US); **C21B 13/00** (2013.01 - EP US); **C21C 5/34** (2013.01 - KR); **C21C 5/46** (2013.01 - KR); **C21C 5/4606** (2013.01 - EP US); **F27B 3/225** (2013.01 - EP US); **F27D 3/16** (2013.01 - EP KR US)

Designated contracting state (EPC)

AT DE LU

DOCDB simple family (publication)

WO 0146479 A1 20010628; AT 408348 B 20011025; AT A214699 A 20010315; AT E374839 T1 20071015; AU 5441501 A 20010703; AU 774033 B2 20040617; CN 1273622 C 20060906; CN 1413266 A 20030423; DE 50014696 D1 20071115; EP 1242636 A1 20020925; EP 1242636 B1 20071003; KR 100747804 B1 20070808; KR 20020063595 A 20020803; US 6802887 B1 20041012

DOCDB simple family (application)

EP 0010964 W 20001107; AT 00993529 T 20001107; AT 214699 A 19991220; AU 5441501 A 20001107; CN 00817516 A 20001107; DE 50014696 T 20001107; EP 00993529 A 20001107; KR 20027007860 A 20020619; US 16839302 A 20020619