

Title (en)

METALLURGICAL MELTING APPARATUS WITH A PIVOTABLE NOZZLE OR BURNER

Publication

**EP 0048007 B1 19841205 (DE)**

Application

**EP 81107214 A 19810912**

Priority

DE 3034520 A 19800912

Abstract (en)

[origin: ES8206633A1] Metallurgical melting apparatus with a blow-nozzle or burner capable of swivelling in different directions. The blow-nozzle or burner comprises at least one tube. The nozzle-head (12) has a bulge, in the example described a spherical calotte (13), which is retained between two ring-seats (14 and 15) (the FIGURE).

IPC 1-7

**C21B 11/00**; **F27B 3/20**; **F27B 1/16**

IPC 8 full level

**C21B 7/16** (2006.01); **C21B 11/00** (2006.01); **F23C 5/06** (2006.01); **F27B 1/16** (2006.01); **F27B 3/20** (2006.01)

CPC (source: EP KR US)

**C21B 7/00** (2013.01 - KR); **C21B 7/16** (2013.01 - EP US); **F23C 5/06** (2013.01 - EP US); **F27B 1/16** (2013.01 - EP US)

Cited by

EP0146213A3; EP0639750A1; US4718646A; FR2584487A1; US4842253A; WO2013156016A1

Designated contracting state (EPC)

AT BE CH FR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0048007 A1 19820324**; **EP 0048007 B1 19841205**; AT E10649 T1 19841215; AU 7480281 A 19820318; BR 8105814 A 19820608; DD 201696 A5 19830803; DE 3034520 A1 19820325; DE 3034520 C2 19830105; ES 505398 A0 19820816; ES 8206633 A1 19820816; GB 2083608 A 19820324; GB 2083608 B 19841003; JP S5780105 A 19820519; KR 830007848 A 19831107; PL 232995 A1 19820426; US 4392637 A 19830712; ZA 815862 B 19820825

DOCDB simple family (application)

**EP 81107214 A 19810912**; AT 81107214 T 19810912; AU 7480281 A 19810901; BR 8105814 A 19810911; DD 23319281 A 19810910; DE 3034520 A 19800912; ES 505398 A 19810911; GB 8127393 A 19810910; JP 14256881 A 19810911; KR 810003309 A 19810905; PL 23299581 A 19810911; US 30090381 A 19810910; ZA 815862 A 19810825