

Title (en)

Apparatus for degassing molten metal.

Title (de)

Vorrichtung für die Entgasung von geschmolzenem Metall.

Title (fr)

Dispositif pour dégazer du métal fondu.

Publication

EP 0281508 A1 19880907 (DE)

Application

EP 88810019 A 19880115

Priority

US 1046387 A 19870203

Abstract (en)

[origin: US4744545A] Apparatus includes a chamber with an inner and outer sidewall wherein fluxing gas inlets are provided on the inner sidewall and a space is provided between the inner and outer sidewall with a heating element and an air space between the heating element and the inner sidewall for providing uniform heating of the inner sidewall.

Abstract (de)

Vorrichtung zum Entgasen von schmelzflüssigem Metall, umfassend eine Kammer mit einer inneren und äusseren Seitenwand (40,41) und Heizvorrichtungen (43) angeordnet im Raum (44) zwischen der inneren und äusseren Seitenwand (41) mit einem Luftraum (44) zwischen den Heizvorrichtungen (43) und der inneren Seitenwand (40).

IPC 1-7

C22B 9/05; **C22B 21/06**

IPC 8 full level

C22B 9/05 (2006.01); **C22B 21/06** (2006.01)

CPC (source: EP US)

C22B 9/055 (2013.01 - EP US); **C22B 21/066** (2013.01 - EP US)

Citation (search report)

- [Y] EP 0025001 A1 19810311 - SERVIMETAL [FR]
- [Y] US 4179102 A 19791218 - CLUMPNER JOSEPH A [US]
- [A] US 4169584 A 19791002 - MANGALICK MAHESH C [US]
- [A] US 4040610 A 19770809 - SZEKELY ANDREW GEZA
- [A] US 4021026 A 19770503 - SZEKELY ANDREW GEZA
- [A] US 3753690 A 19730821 - EMLEY E, et al
- [A] US 3039864 A 19620619 - HESS PAUL D, et al
- [A] GB 1148344 A 19690410 - FOSECO INT
- [AD] US 4177066 A 19791204 - CLUMPNER JOSEPH A [US]
- [AD] US 4392636 A 19830712 - CLUMPNER JOSEPH A
- [AD] US 4494735 A 19850122 - HERSHEY ROBERT E [US]

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

US 4744545 A 19880517; AR 240066 A1 19900131; AT E64157 T1 19910615; AU 1061088 A 19880804; AU 599450 B2 19900719; BR 8800490 A 19880614; CA 1315104 C 19930330; DE 3863092 D1 19910711; EP 0281508 A1 19880907; EP 0281508 B1 19910605; ES 2023009 B3 19911216; JP H0338326 B2 19910610; JP S63195229 A 19880812; NO 168778 B 19911223; NO 168778 C 19920401; NO 880438 D0 19880201; NO 880438 L 19880804; ZA 88542 B 19880928

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US 1046387 A 19870203; AR 30996588 A 19880128; AT 88810019 T 19880115; AU 1061088 A 19880120; BR 8800490 A 19880203; CA 557924 A 19880202; DE 3863092 T 19880115; EP 88810019 A 19880115; ES 88810019 T 19880115; JP 2364088 A 19880203; NO 880438 A 19880201; ZA 88542 A 19880127