

Title (en)

Vessel apparatus for the treatment of molten metal

Title (de)

Gefäßvorrichtung zur Behandlung von Metallschmelzen

Title (fr)

Dispositif pour le traitement d'un matériau liquide tel un métal à l'état liquide

Publication

EP 0885977 A1 19981223 (EN)

Application

EP 97490020 A 19970617

Priority

EP 97490020 A 19970617

Abstract (en)

A device (1) for the treatment of a liquid material (2) under a controlled atmosphere. The device makes use of a) a first receptacle (3), for containing the liquid material (2); b) a confinement enclosure (4) connected to a system (5) for controlling the pressure of an essentially gaseous fluid inside the enclosure (4); c) a second receptacle for receiving and containing the liquid material (2) having been subjected to a purification treatment by passing it through the confinement enclosure (4); d) a transfer system (7), for taking the liquid material (2) in the first receptacle (3) then making it come forward in the confinement enclosure (4) against an exposure surface (8) in the form of a layer of which the free face (9A) is exposed in the enclosure (4) and evacuating it towards the second receptacle.

IPC 1-7

C22B 21/06; **F27B 3/06**; **F27B 14/02**; **C22B 9/00**; **F27D 23/00**; **B22D 1/00**; **B22D 41/04**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [Y] DE 447017 C 19270718 - EMIL FRIEDRICH RUSS
- [Y] FR 1011614 A 19520625
- [Y] DE 3536277 A1 19870416 - LEYBOLD HERAEUS GMBH & CO KG [DE]
- [A] GB 892073 A 19620321 - WERNER HELLING
- [A] DE 1060555 B 19590702 - VAW VER ALUMINIUM WERKE AG
- [A] US 4090916 A 19780523 - PAPAFINGOS PANDELIS N, et al
- [A] CH 304450 A 19550115 - ROENTGEN PAUL DR ING [DE], et al
- [A] GB 2029556 A 19800319 - KOA OIL CO LTD

Cited by

GB2484335A

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