

Title (en)

Lined steel crucible and process for the iron-free melting of magnesium and magnesium alloys

Title (de)

Beschichteter Stahltiegel und Verfahren zum eisenfreien Schmelzen von Magnesium und Magnesiumlegierungen

Title (fr)

Creuset d'acier revêtu et procédé pour fondre le magnésium et ses alliages sans contamination par le fer

Publication

EP 1215293 B1 20060426 (DE)

Application

EP 01127600 A 20011120

Priority

DE 10063020 A 20001216

Abstract (en)

[origin: EP1215293A1] Process for the iron-free melting and/or storing of liquid magnesium and magnesium alloys comprises adhering sintered alumina plates to the inner wall of indirectly heated steel crucibles. Preferred Features: The plates have a thickness of 2-20, preferably 3-10 mm. The adhesive is a ceramic composition containing 85% Al₂O₃, 14.5% MgO and 0.5% SiO₂, together with soda water glass in a ratio of 1: 1-6, preferably 4: 1. Zirconium-containing alloys can be produced.

IPC 8 full level

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EP 1215293 A1 20020619; **EP 1215293 B1 20060426**; AT E324468 T1 20060515; DE 10063020 A1 20010816; DE 10063020 C2 20020124; DE 50109615 D1 20060601; DK 1215293 T3 20060529; ES 2259307 T3 20061001; PT 1215293 E 20060831

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