

Title (en)

Continuously or semi-continuously supplying to a casting die or mould molten magnesium alloy treated to provided a gain refining effect.

Title (de)

Kontinuierliche oder halbkontinuierliche Versorgung einer Giessdüse oer Form mit geschmolzener Magnesium-Legierung behandelt um einen Kornfeinungseffekt zu erzielen.

Title (fr)

Alimentation continue ou semi-continue à une tuyère ou un moule de coulée, d'alliage de magnésium liquide traité pour avoir un effet de raffinage du grain.

Publication

EP 0161051 A1 19851113 (EN)

Application

EP 85302089 A 19850326

Priority

NO 841240 A 19840328

Abstract (en)

Molten magnesium alloy is continuously or semi-continuously supplied to a casting die or mould (13) at the feed point (12) thereof through a closed conduit (5) through which molten alloy is passed without contact with the atmosphere. A first section (6) of the conduit (5) takes the form of a helix immersed in a fluidized bed (8) heating the alloy to a grain refining temperature. A subsequent second section (7) of the conduit (5) in the form of a helix is immersed in a second fluidized bed (9) in which the alloy is cooled to a controlled casting temperature. The conduit (5) supplies the alloy at the level (14) of the inlet (12) to the casting die or mould (13) by control of the pressure of the molten alloy in the conduit (5).

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CPC (source: EP)

B22D 21/007 (2013.01)

Citation (search report)

- [A] DE 2805751 A1 19790816 - PROTHERM OFENBAU GMBH
- [AP] DE 3244079 A1 19840614 - BBC BROWN BOVERI & CIE [CH]
- [A] DE 2914347 A1 19791108 - ALUSUISSE

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Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

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