

Title (en)
METHOD OF CASTING ALUMINIUM ALLOYS

Publication
EP 0198290 B1 19900530 (DE)

Application
EP 86104247 A 19860327

Priority
DE 3512118 A 19850403

Abstract (en)
[origin: EP0198290A2] 1. Method for casting aluminum alloys which contain more aluminium than corresponds to the eutectic mixture with the alloy partners to achieve improved strength values by reducing the spacings of the secondary dendrite arm spacings formed by solidification, characterized in that the inner wall of the casting mould is produced with large numbers of roughnesses in the micro-range, in that the inner wall is provided with a thin layer of a salt mixture, the cations of the salt mixture consisting predominantly of those of the alkali and/or alkaline-earth metals and its anions consisting prominently of those of the halogens, and in that the liquidus temperature of the salt mixture is set lower than the casting temperature of the aluminium alloy.

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IPC 8 full level
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CPC (source: EP)
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Cited by
EP0277577A3; GB2316640A; US5983983A; EP2158986A1; FR2935275A1; DE3821204A1; CN108778557A; KR20180125447A; US9889497B2; WO2017106302A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 0198290 A2 19861022; EP 0198290 A3 19870624; EP 0198290 B1 19900530; BR 8601478 A 19861209; CA 1288210 C 19910903; DE 3512118 A1 19861016; DE 3671607 D1 19900705; ES 553681 A0 19870216; ES 8703097 A1 19870216; IL 78279 A0 19860731; JP S61293653 A 19861224; SU 1760973 A3 19920907; ZA 862393 B 19861126

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