

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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B22C 1/02; B22C 3/00; B22C 9/00; B22C 9/04; B22D 21/00; B22D 25/06; B22D 27/20

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)
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