

Title (en)

Method for the extrusion characteristics of aluminium alloys of the Al-Mg-Si-type.

Title (de)

Verfahren zur Verbesserung der Verpressbarkeit von Aluminiumlegierungen der Gattung Al-Mg-Si.

Title (fr)

Méthode pour améliorer la formabilité des alliages du type aluminium-magnésium-silicium.

Publication

EP 0069026 A1 19830105 (FR)

Application

EP 82420063 A 19820512

Priority

US 26387581 A 19810515

Abstract (en)

1. A method of producing an Al-Mg-Si alloy containing at least the following minor elements : Cu, Fe and Mn, which is highly deformable in the hot and in the cold conditions, without having recourse to gaseous-process refining, characterised by melting a charge containing at least Al, Mg, Si and the following elements (in percent by weight) : $0.1 \leq \text{Cu} \leq 0.3$ $0.3 \leq \text{Fe} \leq 0.7$ $0.05 \leq \text{Mn}$ and by incorporating in the bath an amount of boron ranging from 20 to 150 ppm (by weight) over and above the amount of boron present if required for refining the grain.

Abstract (fr)

L'invention concerne des méthodes d'amélioration de la formabilité d'alliages du type Al-Mg-Si, et des méthodes rendant possible la production de tels alliages en grande partie ou entièrement à partir de déchets de basse qualité, par l'incorporation de 20 à 150 ppm de bore en plus et au-delà de la quantité de bore éventuellement présente dans le but d'affinage du grain, ainsi que les alliages améliorés Al-Mg-Si correspondants contenant du bore.

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CPC (source: EP)

C22C 1/026 (2013.01)

Citation (search report)

- [X] FR 2101745 A5 19720331 - VAW VER ALUMINIUM WERKE AG
- [A] DE 3008358 B1 19801204 - VAW VER ALUMINIUM WERKE AG

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CN110306085A; US6004409A; EP0553533A1; US5424031A; US5582791A; CN113649415A; US6956025B2

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