

Title (en)

Modification of aluminium-silicon alloys in metal matrix composites.

Title (de)

Veredlung von Aluminium-Silicium-Legierungen in Verbundwerkstoffen mit Metallmatrix.

Title (fr)

Modification des alliages à base d'aluminium-silicium en matériaux composites à matrice métallique.

Publication

**EP 0312294 A1 19890419 (EN)**

Application

**EP 88309487 A 19881011**

Priority

CA 549282 A 19871014

Abstract (en)

A process is described for forming a composite cast article comprising an aluminum-silicon alloy matrix containing strontium as a modifier and a preform of bonded-together Al<sub>2</sub>O<sub>3</sub> fibres incorporated in the matrix, in which the preform is infiltrated under pressure by a melt of the alloy and the composite article thus formed is allowed to solidify by cooling. According to the novel feature, by utilizing a specific amount of strontium as modifier in the range of about 0.5 to 1.0% by weight, it is possible to obtain a satisfactory modification of the alloy within the composite.

IPC 1-7

**C22C 1/09**; **C22C 21/04**

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

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