

Title (en)
SEMI-SOLID METAL CASTING PROCESS AND PRODUCT THEREOF

Title (de)
SEMI-SOLID METALL-GIESSPROZESS UND PRODUKT DARAUS

Title (fr)
PROCEDE DE COULAGE DE METAL SEMI-SOLIDE ET PRODUIT COULE

Publication
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Application
EP 03759315 A 20030922

Priority

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- US 29369402 A 20021114

Abstract (en)
[origin: US2004055724A1] A method for the refining of primary silicon in hypereutectic alloys by mixing a hypereutectic alloy and a solid/semi-solid hypoeutectic alloy is described. The method provides control of the morphology, size, and distribution of primary Si in a hypereutectic Al-Si casting by mixing a hypoeutectic Al-Si liquid with one that is hypereutectic to impart desirable mechanical properties.

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C22C 1/00

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CPC (source: EP US)
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See references of WO 2004027101A2

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US 2004055724 A1 20040325; AU 2003275047 A1 20040408; AU 2003275047 A8 20040408; EP 1546421 A2 20050629; WO 2004027101 A2 20040401; WO 2004027101 A3 20040603

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