

Title (en)  
SEMI-SOLID PROCESSING OF ALUMINIUM ALLOYS

Title (de)  
HALBFESTE VERARBEITUNG VON ALUMINIUM-LEGIERUNGEN

Title (fr)  
TRAITEMENT D'ALLIAGES D'ALUMINIUM POUR OBTENIR UN ETAT SEMI-SOLIDE

Publication  
**EP 0775219 A1 19970528 (EN)**

Application  
**EP 96916293 A 19960528**

Priority  
• IT 9600110 W 19960528  
• IT BO950273 A 19950531

Abstract (en)  
[origin: WO9638593A1] A method for bringing aluminium alloy blocks, such as ingots, billets and others to a semi-solid and semi-liquid state which allows them to be moulded, according to which there is a first phase for refining the said aluminium alloy by adding a silicon-boron alloy to the said aluminium alloy when it is melted, a second phase for heating the said ambient temperature blocks until a temperature is reached in which there is a balance between its solid and liquid states and in which the phases of eutectic silicon are liquid and the phases of alpha -aluminium are solid and a third operating phase for using the said alloy blocks obtained in the previous phases inside the moulding system in the semi-solid and semi-liquid state, through which the resulting semi-finished products are obtained.

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**C22C 1/00**; **C22C 21/04**; **B22D 1/00**

IPC 8 full level  
**B22D 1/00** (2006.01); **C22C 1/00** (2006.01); **C22C 21/04** (2006.01); **C22F 1/04** (2006.01)

CPC (source: EP)  
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Citation (search report)  
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