

Title (en)  
SYSTEM FOR MANUFACTURING A CRYSTALLINE MATERIAL BY DIRECTIONAL CRYSTALLIZATION PROVIDED WITH AN ADDITIONAL LATERAL HEAT SOURCE

Title (de)  
SYSTEM ZUR HERSTELLUNG EINES KRISTALLINEN MATERIALS DURCH GERICHTETE KRISTALLISATION MIT EINER ZUSÄTZLICHEN SEITLICHEN WÄRMEQUELLE

Title (fr)  
SYSTÈME DE FABRICATION D'UN MATÉRIAU CRISTALLIN PAR CRISTALLISATION DIRIGÉE MUNI D'UNE SOURCE DE CHALEUR ADDITIONNELLE LATÉRALE

Publication  
**EP 2751309 A1 20140709 (FR)**

Application  
**EP 12762324 A 20120831**

Priority  
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• FR 2012000346 W 20120831

Abstract (en)  
[origin: CA2845068A1] The crystallization system comprises a crucible (1) provided with a base (2) and side walls (3) that is intended to contain the material to be solidified and a device (4) for creating a main thermal gradient inside the crucible (1) in a direction perpendicular to the base (2) of the crucible (1). An additional induction heating device (6) is positioned at the side walls (3) of the crucible (1) facing the liquid material and without overlapping with the solid phase. This additional induction heating device (6) is configured in order to heat a portion of the crystalline material located in the vicinity of the triple line between the liquid material, the solidified material and the crucible (1) so that the interface (10) between the liquid material and the solidified material forms a convex meniscus in the vicinity of the triple line.

IPC 8 full level  
**C30B 11/00** (2006.01); **C01B 33/02** (2006.01); **C30B 28/06** (2006.01); **C30B 33/02** (2006.01); **C30B 35/00** (2006.01); **H01L 31/00** (2006.01)

CPC (source: EP US)  
**C30B 11/003** (2013.01 - EP US); **C30B 11/007** (2013.01 - US); **C30B 11/008** (2013.01 - US); **C30B 28/06** (2013.01 - EP US); **C30B 29/06** (2013.01 - US); **C30B 33/02** (2013.01 - EP US); **C30B 35/00** (2013.01 - EP US); **H01L 31/182** (2013.01 - EP US); **Y02E 10/546** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US); **Y10T 117/1092** (2015.01 - EP US)

Citation (search report)  
See references of WO 2013030470A1

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