

Title (en)  
PROCESS FOR FABRICATING A SINGLE-CRYSTAL FILM

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINER EINKRISTALLSCHICHT

Title (fr)  
PROCÉDÉ DE FABRICATION D'UNE COUCHE MONOCRISTALLINE

Publication  
**EP 2875519 A1 20150527 (FR)**

Application  
**EP 13747450 A 20130715**

Priority  
• FR 1256898 A 20120717  
• FR 2013051688 W 20130715

Abstract (en)  
[origin: WO2014013173A1] Process for fabricating a single-crystal thin film n;(1), comprising steps consisting in: a) providing a carrier substrate n;(3); b) placing a seed sample n;(4); c) depositing a thin film n;(1) so as to form an initial interface region n;(7) comprising a proportion of seed sample n;(4) and a proportion of thin film n;(1), the proportion of seed sample n;(4) decreasing from a first peripheral part n;(8) toward a second peripheral part n;(9); e) delivering energy to the initial interface region n;(7) contiguous to the first peripheral part n;(8) so as to liquefy a portion n;(13) of the thin film and form a solid/liquid interface region n;(14); and f) gradually moving the energy delivery away from the seed sample n;(4) so as to solidify the portion n;(13) so as to gradually move the solid/liquid interface region n;(14).

IPC 8 full level  
**H01L 21/20** (2006.01)

CPC (source: EP US)  
**C30B 13/005** (2013.01 - US); **C30B 13/24** (2013.01 - US); **H01L 21/02488** (2013.01 - EP US); **H01L 21/02532** (2013.01 - EP US); **H01L 21/02658** (2013.01 - EP US); **H01L 21/02678** (2013.01 - EP US); **H01L 21/02686** (2013.01 - EP US); **H01L 21/02691** (2013.01 - EP US); **Y10T 428/12674** (2015.01 - EP US)

Citation (search report)  
See references of WO 2014013173A1

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