

Title (en)

SEMICONDUCTOR COMPONENT COMPRISING A POLYCRYSTALLINE SEMICONDUCTOR LAYER

Title (de)

HALBLEITERBAUTEIL MIT POLYKRISTALLINER HALBLEITERSCHICHT

Title (fr)

ÉLÉMENT À SEMI-CONDUCTEUR COMPORTANT UNE COUCHE SEMI-CONDUCTRICE POLYCRISTALLINE

Publication

EP 2201598 A1 20100630 (DE)

Application

EP 08785186 A 20080729

Priority

- EP 2008006239 W 20080729
- DE 102007050288 A 20071018

Abstract (en)

[origin: CA2702781A1] A semiconductor component comprises a carrier and, on one side of the carrier, at least one semiconductor layer embodied in polycrystalline fashion. The polycrystalline semiconductor layer contains the crystallization seeds.

IPC 8 full level

H01L 21/20 (2006.01); **H01L 21/208** (2006.01); **H01L 21/36** (2006.01)

CPC (source: EP KR US)

C23C 18/08 (2013.01 - EP KR US); **H01L 21/0237** (2013.01 - EP KR US); **H01L 21/02428** (2013.01 - EP KR US);
H01L 21/02491 (2013.01 - EP KR US); **H01L 21/02532** (2013.01 - EP KR US); **H01L 21/02628** (2013.01 - EP KR US);
H01L 31/035281 (2013.01 - EP KR US); **H01L 31/1872** (2013.01 - EP KR US); **Y02E 10/50** (2013.01 - US); **Y02P 70/50** (2015.11 - EP US)

Citation (examination)

- US 6086945 A 20000711 - KAMATA ATSUSHI [JP], et al
- RAND J A ET AL: "SILICON ON GRAPHITE CLOTH", WORLD CONFERENCE ON PHOTOVOLTAIC ENERGY. WAIKOLOA, DEC. 5 - 9, 1994; [WORLD CONFERENCE ON PHOTOVOLTAIC ENERGY], NEW YORK, IEEE, US LNKD- DOI:10.1109/WCPEC.1994.519959, vol. CONF. 1, 5 December 1994 (1994-12-05), pages 1262 - 1265, XP000680070, ISBN: 978-0-7803-1460-3
- KYLIE R CATCHPOLE ET AL: "A review of thin-film crystalline silicon for solar cell applications. Part 2: Foreign substrates", SOLAR ENERGY MATERIALS & SOLAR CELLS, 1 January 2001 (2001-01-01), pages 173 - 215, XP055168996, Retrieved from the Internet <URL:http://www.sciencedirect.com/science/article/pii/S0927024800002464/pdf?md5=6b15a1702e1a4c6df82c6d92736579e2&pid=1-s2.0-S0927024800002464-main.pdf>
- See also references of WO 2009052878A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102007050288 A1 20090423; CA 2702781 A1 20090430; CN 101939819 A 20110105; CN 101939819 B 20140430;
EP 2201598 A1 20100630; EP 2544222 A1 20130109; JP 2011501421 A 20110106; KR 20100098595 A 20100908;
US 2010213465 A1 20100826; US 8354673 B2 20130115; WO 2009052878 A1 20090430

DOCDB simple family (application)

DE 102007050288 A 20071018; CA 2702781 A 20080729; CN 200880112273 A 20080729; EP 08785186 A 20080729;
EP 12187207 A 20080729; EP 2008006239 W 20080729; JP 2010529245 A 20080729; KR 20107008743 A 20080729; US 73852608 A 20080729