

Title (en)

MULTI-JUNCTION SOLAR CELLS AND METHODS AND APPARATUSES FOR FORMING THE SAME

Title (de)

SOLARZELLEN MIT MEHREREN ANSCHLÜSSEN SOWIE VERFAHREN UND VORRICHTUNGEN ZU DEREN HERSTELLUNG

Title (fr)

PILES SOLAIRES MULTIJONCTIONS ET PROCÉDÉS ET APPAREILS POUR FORMER CELLES-CI

Publication

EP 2171759 A1 20100407 (EN)

Application

EP 08782269 A 20080723

Priority

- US 2008070900 W 20080723
- US 95160807 P 20070724
- US 98240007 P 20071024
- US 11012008 A 20080425

Abstract (en)

[origin: WO2009015213A1] Embodiments of the present invention generally relate to solar cells and methods and apparatuses for forming the same. More particularly, embodiments of the present invention relate to thin film multi-junction solar cells and methods and apparatuses for forming the same. Embodiments of the present invention also include an improved thin film silicon solar cell, and methods and apparatus for forming the same, where one or more of the layers in the solar cell comprises at least one amorphous silicon layer that has improved electrical characteristics and mechanical properties, and is capable of being deposited at rates many times faster than conventional amorphous silicon deposition processes.

IPC 8 full level

H01L 31/00 (2006.01)

CPC (source: EP KR)

H01L 31/03921 (2013.01 - EP); **H01L 31/0445** (2014.12 - KR); **H01L 31/047** (2014.12 - KR); **H01L 31/076** (2013.01 - EP); **H01L 31/1824** (2013.01 - EP); **H01L 31/202** (2013.01 - EP); **Y02E 10/545** (2013.01 - EP); **Y02E 10/548** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

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)

WO 2009015213 A1 20090129; CN 101542745 A 20090923; CN 101542745 B 20130306; EP 2171759 A1 20100407; JP 2010534938 A 20101111; KR 101019273 B1 20110307; KR 20090035471 A 20090409; TW 200913292 A 20090316

DOCDB simple family (application)

US 2008070900 W 20080723; CN 200880000178 A 20080723; EP 08782269 A 20080723; JP 2010518358 A 20080723; KR 20087026072 A 20080723; TW 97128158 A 20080724