

Title (en)

USE OF DIBENZOTETRAPHENYLPERIFLANTHENE IN ORGANIC SOLAR CELLS

Title (de)

VERWENDUNG VON DIBENZOTETRAPHENYLPERIFLANTHEN IN ORGANISCHEN SOLARZELLEN

Title (fr)

UTILISATION DU DIBENZOTETRAPHENYLPERIFLANTHENE DANS DES CELLULES SOLAIRES ORGANIQUES

Publication

**EP 2329539 A1 20110608 (DE)**

Application

**EP 09783163 A 20090918**

Priority

- EP 2009062104 W 20090918
- EP 08164738 A 20080919
- EP 09783163 A 20090918

Abstract (en)

[origin: WO2010031833A1] The present invention relates to the use of dibenzotetraphenylperiflanthene of formula (I) as an electron donor material in an organic solar cell comprising photoactive donor-acceptor transitions in the form of a bulk heterojunction.

IPC 8 full level

**H01L 51/00** (2006.01)

CPC (source: EP KR US)

**B82Y 10/00** (2013.01 - EP US); **H01L 31/04** (2013.01 - KR); **H10K 30/00** (2023.02 - KR); **H10K 85/624** (2023.02 - EP US); **H10K 99/00** (2023.02 - KR); **H10K 30/30** (2023.02 - EP US); **H10K 85/215** (2023.02 - EP US); **Y02E 10/549** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US)

Citation (search report)

See references of WO 2010031833A1

Citation (examination)

STEPHEN R FORREST: "The Limits to Organic Photovoltaic Cell Efficiency", MRS BULLETIN, vol. 30, 1 January 2005 (2005-01-01), pages 28 - 32, XP055050619

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2010031833 A1 20100325**; CN 102160207 A 20110817; EP 2329539 A1 20110608; JP 2012503320 A 20120202; KR 20110074522 A 20110630; US 2011168248 A1 20110714

DOCDB simple family (application)

**EP 2009062104 W 20090918**; CN 200980136887 A 20090918; EP 09783163 A 20090918; JP 2011527332 A 20090918; KR 20117007902 A 20090918; US 200913119192 A 20090918