

Title (en)
ORGANIC SOLAR CELL

Title (de)
ORGANISCHE SOLARZELLE

Title (fr)
CELLULE SOLAIRE ORGANIQUE

Publication
EP 2132799 A2 20091216 (DE)

Application
EP 08734347 A 20080229

Priority
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Abstract (en)
[origin: DE102007009995A1] The organic solar cell comprises two electrodes and is disposed between photoactive layer having two partial layers. The former partial layer emits electrons and latter partial layer receives electrons, where an intermediate layer is disposed between an electrode and photoactive layer. A cathode (Kath) facing the incident light is configured as a transparent window in a multi-layer arrangement. The photoactive layer is configured as a homo or hetero-structure between cathode and anode (An). An electron receiving sublayer (L-Akz) of the photoactive layer is arranged adjacent to the cathode.

IPC 8 full level
H01L 51/44 (2006.01)

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B82Y 10/00 (2013.01); **H10K 30/821** (2023.02); **H10K 30/20** (2023.02); **H10K 30/50** (2023.02); **H10K 30/57** (2023.02); **H10K 85/1135** (2023.02); **H10K 85/211** (2023.02); **H10K 85/324** (2023.02); **Y02E 10/549** (2013.01)

Citation (examination)
• WO 2007012835 A1 20070201 - CRYSCADE SOLAR LTD [CY], et al
• SHROTRIYA VISHAL ET AL: "Efficient light harvesting in multiple-device stacked structure for polymer solar cells", APPLIED PHYSICS LETTERS, AIP, AMERICAN INSTITUTE OF PHYSICS, MELVILLE, NY, US, vol. 88, no. 6, 10 February 2006 (2006-02-10), pages 64104 - 064104, XP012082812, ISSN: 0003-6951, DOI: 10.1063/1.2172741

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