

Title (en)

ARYL-ETHYLENE SUBSTITUTED AROMATIC COMPOUNDS AND THEIR USE AS ORGANIC SEMICONDUCTORS

Title (de)

AROMATISCHE ARYL-ETHYLEN-SUBSTITUIERTE VERBINDUNGEN UND IHRE VERWENDUNG ALS ORGANISCHE HALBLEITER

Title (fr)

COMPOSES AROMATIQUES ARYL-ETHYLENE SUBSTITUES ET UTILISATION COMME SEMICONDUCTEURS ORGANIQUES

Publication

EP 1869720 A2 20071226 (EN)

Application

EP 06749630 A 20060411

Priority

- US 2006013274 W 20060411
- US 67217705 P 20050415

Abstract (en)

[origin: WO2006113205A2] There are disclosed aryl-ethylene aromatic compounds and their use as organic semiconductors. The compounds can be used in electronic devices such as organic thin film transistors (OTFTs), display devices, light-emitting diodes, photovoltaic cells, photo-detectors, and memory cells. Methods for manufacturing these aryl-ethylene aromatic compounds are also disclosed.

IPC 8 full level

H01L 29/08 (2006.01); **H01L 35/24** (2006.01); **H01L 51/00** (2006.01)

CPC (source: EP KR)

C07C 13/19 (2013.01 - EP); **C07C 13/567** (2013.01 - EP); **C07C 15/52** (2013.01 - EP); **C07C 15/56** (2013.01 - EP); **C07C 15/60** (2013.01 - EP); **C07C 15/62** (2013.01 - EP); **C07C 17/00** (2013.01 - EP); **C07C 17/14** (2013.01 - EP); **C07C 17/263** (2013.01 - EP); **C07C 22/08** (2013.01 - EP); **C07C 25/22** (2013.01 - EP); **C07C 25/24** (2013.01 - EP); **C07C 43/215** (2013.01 - EP); **C07C 46/00** (2013.01 - EP); **C07C 49/796** (2013.01 - EP); **C07C 50/24** (2013.01 - EP); **C07C 255/52** (2013.01 - EP); **C07C 321/28** (2013.01 - EP); **C07D 333/18** (2013.01 - EP); **C07D 495/04** (2013.01 - EP); **C07F 7/081** (2013.01 - EP); **C08G 61/02** (2013.01 - EP); **C08G 61/126** (2013.01 - EP); **H10K 85/615** (2023.02 - EP); **H10K 85/622** (2023.02 - EP); **H10K 85/626** (2023.02 - EP); **H10K 85/655** (2023.02 - EP); **H10K 85/6576** (2023.02 - EP); **H10K 99/00** (2023.02 - KR); **C07C 2601/14** (2017.04 - EP); **C07C 2603/18** (2017.04 - EP); **C07C 2603/24** (2017.04 - EP); **C07C 2603/44** (2017.04 - EP); **C07C 2603/50** (2017.04 - EP); **C07C 2603/52** (2017.04 - EP); **C08G 2261/3223** (2013.01 - EP); **C08G 2261/3422** (2013.01 - EP); **C08G 2261/411** (2013.01 - EP); **C08G 2261/413** (2013.01 - EP); **C08G 2261/92** (2013.01 - EP); **H10K 10/464** (2023.02 - EP); **H10K 10/466** (2023.02 - EP); **H10K 50/11** (2023.02 - EP); **H10K 50/14** (2023.02 - EP); **H10K 85/114** (2023.02 - EP); **H10K 85/40** (2023.02 - EP); **H10K 85/631** (2023.02 - EP); **H10K 85/654** (2023.02 - EP); **Y02E 10/549** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

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WO 2006113205 A2 20061026; **WO 2006113205 A3 20090522**; CN 101553929 A 20091007; CN 101553929 B 20121205; CN 102683590 A 20120919; EP 1869720 A2 20071226; EP 1869720 A4 20110921; JP 2008538651 A 20081030; JP 5155852 B2 20130306; KR 101347419 B1 20140206; KR 20080003883 A 20080108; TW 200702422 A 20070116

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US 2006013274 W 20060411; CN 200680011729 A 20060411; CN 201210160802 A 20060411; EP 06749630 A 20060411; JP 2008506569 A 20060411; KR 20077026454 A 20060411; TW 95113517 A 20060414