

Title (en)

EMISSIVE POLYMERIC MATERIALS FOR OPTOELECTRONIC DEVICES

Title (de)

EMISSIVE POLYMER MATERIALIEN FÜR OPTOELEKTRONISCHE BAUELEMENTE

Title (fr)

MATIÈRES POLYMÈRES ÉMISSIVES POUR DES DISPOSITIFS OPTOÉLECTRONIQUES

Publication

EP 2225346 A1 20100908 (EN)

Application

EP 08863182 A 20080820

Priority

- US 2008073627 W 20080820
- US 95756607 A 20071217

Abstract (en)

[origin: WO2009079039A1] Polymers including at least one structural unit derived from a compound of Formula (I) or including at least one pendant group of Formula (II) may be used in optoelectronic devices, wherein R1, R3, R4 and R6 are independently hydrogen, alkyl, alkoxy, oxaalkyl, alkylaryl, aryl, arylalkyl, heteroaryl, substituted alkyl; substituted alkoxy, substituted oxaalkyl, substituted alkylaryl, substituted aryl, substituted arylalkyl, or substituted heteroaryl; R1a is hydrogen or alkyl; R2 is alkylene, substituted alkylene, oxaalkylene, CO, or CO2; R2a is alkylene; R5 is independently at each occurrence hydrogen, alkyl, alkylaryl, aryl, arylalkyl, alkoxy, carboxy, substituted alkyl; substituted alkylaryl, substituted aryl, substituted arylalkyl, or substituted alkoxy, X is halo, triflate, -B(OR1a)2, or Formula (III) located at the 2, 5- or 2, 7- positions; and L is derived from phenylpyridine, tolylpyridine, benzothienylpyridine, phenylisoquinoline, dibenzoquinoxaline, fluorenylpyridine, ketopyrrole, 2-(1-naphthyl)benzoxazole), 2-phenylbenzoxazole, 2-phenylbenzothiazole, coumarin, thienylpyridine, phenylpyridine, benzothienylpyridine, 3-methoxy-2-phenylpyridine, thienylpyridine, phenylimine, vinylpyridine, pyridylnaphthalene, pyridylpyrrole, pyridylimidazole, phenylindole, derivatives thereof or combinations thereof.

IPC 8 full level

C09K 11/06 (2006.01); **C07F 15/00** (2006.01); **H01L 51/00** (2006.01); **H05B 33/14** (2006.01)

CPC (source: EP)

C07F 15/004 (2013.01); **C09K 11/06** (2013.01); **H05B 33/14** (2013.01); **H10K 50/11** (2023.02); **H10K 85/111** (2023.02); **H10K 85/115** (2023.02); **C09K 2211/1416** (2013.01); **C09K 2211/1425** (2013.01); **C09K 2211/1433** (2013.01); **C09K 2211/1466** (2013.01); **C09K 2211/185** (2013.01)

Citation (search report)

See references of WO 2009079039A1

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 2009079039 A1 20090625; CN 101998983 A 20110330; CN 101998983 B 20150114; EP 2225346 A1 20100908; JP 2011518764 A 20110630; JP 5591713 B2 20140917; KR 101573952 B1 20151202; KR 20100092513 A 20100820

DOCDB simple family (application)

US 2008073627 W 20080820; CN 200880122537 A 20080820; EP 08863182 A 20080820; JP 2010538001 A 20080820; KR 20107015650 A 20080820