

Title (en)
LIQUID CRYSTALLINE RYLENE TETRACARBOXYLIC ACID DERIVATIVES AND USE THEREOF

Title (de)
FLÜSSIG-KRISTALLINE RYLENTETRACARBONSÄUREDERIVATE UND DEREN VERWENDUNG

Title (fr)
DÉRIVÉS D'ACIDE RYLÈNE-TÉTACARBOXYLIQUE CRISTALLINS LIQUIDES ET UTILISATION

Publication
EP 2008319 A2 20081231 (DE)

Application
EP 07727799 A 20070404

Priority

- EP 2007053330 W 20070404
- EP 06007415 A 20060407
- EP 07727799 A 20070404

Abstract (en)
[origin: EP1843407A1] Rylene tetracarboxylic acid derivatives (A). Rylene tetracarboxylic acid derivatives (A) of formula (I) or (II). R_{n1}-R_{n4} : H, F, Cl, Br or CN (when n is 1 or 2), or H, F, Cl or Br (when n is 3 or 4); Ra, Rb : H or alkyl; X 1>(x+1)-valent residue; X 2>(y+1)-valent residue; x, y : 2-6; Ri, Riii : 4-30C alkyl (which is not interrupted by one or more adjoining oxygen atom); and n : 1-4. Independent claims are included for the preparations of (I). [Image].

IPC 8 full level
H01L 51/00 (2006.01)

CPC (source: EP KR US)
C07D 221/14 (2013.01 - EP US); **C07D 221/18** (2013.01 - EP US); **C09B 5/62** (2013.01 - EP); **C09K 19/34** (2013.01 - KR); **H10K 85/621** (2023.02 - EP US); **H10K 85/731** (2023.02 - EP US); **H10K 10/46** (2023.02 - EP KR); **H10K 10/466** (2023.02 - EP US); **H10K 30/20** (2023.02 - EP KR US); **H10K 30/50** (2023.02 - EP KR); **Y02E 10/549** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1843407 A1 20071010; AU 2007235952 A1 20071018; AU 2007235952 B2 20130606; AU 2007235952 C1 20131003; CN 101467276 A 20090624; EP 2008319 A2 20081231; JP 2009532436 A 20090910; KR 20080111120 A 20081222; US 2011042651 A1 20110224; US 8481736 B2 20130709; WO 2007116001 A2 20071018; WO 2007116001 A3 20071122; ZA 200809444 B 20140129

DOCDB simple family (application)
EP 06007415 A 20060407; AU 2007235952 A 20070404; CN 200780021275 A 20070404; EP 07727799 A 20070404; EP 2007053330 W 20070404; JP 2009503588 A 20070404; KR 20087027403 A 20081107; US 29631207 A 20070404; ZA 200809444 A 20081105