

Title (en)

LIGHT-EMITTING APPARATUS AND MOLECULE FOR USE THEREIN

Title (de)

LICHTEMITTIERENDES GERÄT UND MOLEKÜLE ZUR ANWENDUNG IN DIESEM GERÄT

Title (fr)

EMETTEUR DE LUMIERE ET MOLECULE Y ETANT UTILISEE

Publication

EP 0939971 A1 19990908 (EN)

Application

EP 97939116 A 19970919

Priority

IB 9701123 W 19970919

Abstract (en)

[origin: WO9916105A1] An apparatus for creating a light emission comprises at least one molecule which is positioned on a first electrode which is located at a tunneling distance from a second electrode. The molecule has a central entity which is bound to at least one peripheral entity which electrically decouples the central entity from the first electrode. This means that the central entity is not directly chemisorbed or physisorbed at the first electrode. The apparatus comprises voltage application means for applying an electrical voltage such that a tunneling current is flowing through the molecule.

IPC 1-7

H01J 61/00

IPC 8 full level

C09K 11/06 (2006.01); **C07C 13/62** (2006.01); **G02B 27/01** (2006.01); **H01J 61/00** (2006.01); **H05B 33/00** (2006.01); **G02B 27/02** (2006.01)

CPC (source: EP)

C07C 13/62 (2013.01)

Citation (search report)

See references of WO 9916105A1

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

WO 9916105 A1 19990401; DE 69825968 D1 20041007; DE 69825968 T2 20050908; EP 0939971 A1 19990908; EP 0946967 A1 19991006; EP 0946967 B1 20040901; JP 2000505821 A 20000516; JP 2000512073 A 20000912; JP 3341902 B2 20021105; WO 9916106 A1 19990401

DOCDB simple family (application)

IB 9701123 W 19970919; DE 69825968 T 19980918; EP 97939116 A 19970919; EP 98942951 A 19980918; IB 9801445 W 19980918; JP 51871499 A 19970919; JP 51874299 A 19980918