

Title (en)

AN IMPROVED ELECTRODE STRUCTURE FOR ORGANIC LIGHT EMITTING DIODE DEVICES

Title (de)

EINE VERBESSERTE ELEKTRODENSTRUKTUR FÜR ORGANISCHE, LICHEMITTIERENDE DIODEN

Title (fr)

STRUCTURE D'ELECTRODES AMELIOREE POUR DISPOSITIFS ORGANIQUES A DIODES ELECTROLUMINESCENTES

Publication

EP 1088320 A1 20010404 (EN)

Application

EP 99909560 A 19990224

Priority

- US 9903900 W 19990224
- US 8591098 P 19980518

Abstract (en)

[origin: WO9960599A1] An improved organic light emitting diode device (20) is disclosed. The organic light emitting diode device (20) includes a first electrode (25), a second electrode (22), and an organic stack (23) interposed between the first electrode (25) and the second electrode (22). The organic stack (23) may include hole transport materials located on one side of the stack and electron transport materials located on another side of the stack. The improvement includes a thin layer (24) of high work function material interposed between the first electrode (25) and the organic stack (23). The organic light emitting diode device (20) according to the present invention has improved stability.

IPC 1-7

H01J 1/62; **H01J 1/63**; **H01L 35/24**; **H01L 33/00**

IPC 8 full level

H05B 33/26 (2006.01); **H01L 51/50** (2006.01); **H01L 51/52** (2006.01)

CPC (source: EP KR)

H05B 33/26 (2013.01 - KR); **H10K 50/17** (2023.02 - EP KR)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9960599 A1 19991125; CN 1321325 A 20011107; EP 1088320 A1 20010404; JP 2002516459 A 20020604; KR 20010071276 A 20010728

DOCDB simple family (application)

US 9903900 W 19990224; CN 99808804 A 19990224; EP 99909560 A 19990224; JP 2000550128 A 19990224; KR 20007012865 A 20001116