Title (en)

BILAYER POLYMER ELECTROLUMINESCENT DEVICE FEATURING INTERFACE ELECTROLUMINESCENCE

Title (de)

DOPPELSCHICHT POLYMERISCHE ELEKTROLUMINESCENTE VORRICHTUNG MIT INTERFACE-ELEKTROLUMINESCENT

Title (fr)

DISPOSITIF ELECTROLUMINESCENT SUR LA BASE D'UN POLYMERE A DEUX COUCHES REPRESENTANT UNE ELECTROLUMINESCENCE D'INTERFACE

Publication

EP 1008164 A1 20000614 (EN)

Application

EP 98911635 A 19980312

Priority

- US 9804988 W 19980312
- US 3623297 P 19970312

Abstract (en)

[origin: WO9840899A1] An electroluminescent device includes a first polymeric layer (1) as a hole transport/electron blocking layer and a second polymeric layer (2) as an electron transporting emissive layer, wherein the first layer and the second layer are in electrical contact so as to form an interface being capable of producing an exciplex-like emission upon a current being passed through the interface. The first layer has a greater hole transport capability than the second layer, and the second layer having greater electron transport capability than the first layer.

IPC 1-7 (main, further and additional classification)

H01J 1/62; B32B 9/00

IPC 8 full level (invention and additional information)

C09K 11/06 (2006.01); **H01L 33/00** (2006.01); **H01L 51/50** (2006.01); **H01S 3/16** (2006.01); **H05B 33/14** (2006.01)

CPC (invention and additional information)

H01L 51/5012 (2013.01); **C09K 11/06** (2013.01); **H05B 33/14** (2013.01)

Citation (search report)

See references of WO 9840899A1

Designated contracting state (EPC)

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

EPO simple patent family

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INPADOC legal status

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- Effective date : 20021001

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- Effective date : 19990928

2000-06-14 [AK] DESIGNATED CONTRACTING STATES:

- Kind Code of Ref Document : A1
- Designated State(s) : AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE