

Title (en)  
ELECTROLUMINESCENT MATERIALS AND THEIR USE

Title (de)  
ELEKTROLUMINESZIERENDE MATERIALIEN UND DEREN VERWENDUNG

Title (fr)  
MATERIAUX ELECTROLUMINESCENTS ET LEUR UTILISATION

Publication  
**EP 1977432 A1 20081008 (DE)**

Application  
**EP 07702866 A 20070118**

Priority  
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• DE 102006003710 A 20060126

Abstract (en)  
[origin: DE102006003710A1] Polymer containing at least 0.5 mol.% of an unit (III), is new. Polymer containing at least 0.5 mol.% of an unit of formula (III), is new. M : 2-40C- (hetero)aromatic or non-aromatic ring system, which is optionally substituted by one or more R 1>; either X 1>, X 2>bridge, that stretches with M cyclic system of B(R 1>), C(R 1>) 2, Si(R 1>) 2, Ge(R 1>) 2, C=O, C=S, C=Se, C=Te, C=NR 1>, C=C(R 1>) 2, O, S, S=O, SO 2, S(R 1>) 2, N(R 1>), P(R 1>), P(=O)R 1>, P(=S)R 1>, P=O, P=S, P=Se, P=Te, Se or Te; or X 1>X 2>optionally substituted double bond (-CR 1>=CR 1>) or triple bond; Y 1>-Y 3>X 1>; J : a connection to the polymer, such as a bond, unsaturated or substituted double bond (-CR 2>=CR 2>-), triple bond, an unsubstituted or (hetero)aromatic, or aromatic cyclic unit substituted with R 1>or -N-Ar; either R 1>N, F, Cl, Br, I, CN, NO 2, NH 2, Si(CH 3) 3, cyclic 1-40C- alkyl, -(thio)alkoxy, -amino (optionally substituted by one or more R 2>, where one or more non-adjacent CH 2group is optionally substituted by N-R 2>, O-CO-O, CO-O, CH=CH, R 2>C=CR 2>, Ctriple boundC, Si(R 2>) 2, Ge(R 2>) 2, Sn(R 2>) 2, C=O, C=S, C=Se, C=NR 2>, O, S or CONR 2>, and one or more H is optionally substituted by F, Cl, Br, I, CN or NO 2), 2-40C (hetero)aromatic ring system (optionally substituted by one or more R 2>) and/or 2-40C-(hetero)aryloxy (optionally substituted by one or more R 2>); or 2 or more R 1>mono or polycyclic aliphatic ring system; R 2>H, halo, NO 2, CN, NH 2, N(R 3>) 2or aliphatic, (hetero)aromatic 1-20C-hydrocarbon; either R 3>cyclic 1-10C-alkyl or alkoxy, or 2-24C-(hetero)aromatic ring system (optionally substituted by one or more R 2>); or 2R 3>mono- or poly- cyclic ring system; n, m, p : 0-2; and q : 1 to 10 6>. Where at least n or m is 1 or 2. Independent claims are included for: (1) a bifunctional monomer compound of formula (IV); (2) mixtures (blends) obtained form the polymer and at least another polymer, oligomer, dendritic and/or lower molecular substance; and (3) solutions and formulations obtained form the polymer or mixture in at least a solvent. A : a group that copolymerize C-C and/or C-N bonds. [Image]

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