

Title (en)
ELECTROLUMINESCENT DEVICE

Title (de)
ELEKTROLUMINESZENZUORRICHTUNG

Title (fr)
DISPOSITIF ELECTROLUMINESCENT

Publication
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Application
EP 98934728 A 19980731

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Abstract (en)
[origin: WO9907028A1] The invention concerns a electroluminescent device with a multilayer structure comprising: i) a first electrode (2) including a layer, consisting of a transparent or translucent conductive material selected among metal oxides and metal nitrides, said layer being deposited on a transparent support (1), consisting of a glass, silicon, alumina plate, or a polymer sheet; ii) a second electrode (6); iii) a layer (4), arranged between the two electrodes, comprising a semiconductor and electroluminescent solid organic substance, said layer being optionally bordered with one or several intermediate layers (5), consisting of electrocatalysts; and iv) a layer with monomolecular structure, arranged between the layer consisting of the conductive material (2) and the layer consisting of the electroluminescent substance (4). Said device is further characterised in that said layer (3) consists of a dipolar organic compound whereof the structure has an electronic system π , a functional group, vicinal or not of the electronic system π . Moreover, the dipolar organic compound is chemically bound by the functional group to the conductive material (2) and has chemical affinity for the organic electroluminescent substance (4).

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