

Title (en)
LAYER ARRANGEMENT FOR A LIGHT-EMITTING COMPONENT

Title (de)
SCHICHTANORDNUNG FÜR EIN LICHEMITTIERENDES BAUELEMENT

Title (fr)
ENSEMBLE DE COUCHES POUR UN COMPOSANT ÉMETTEUR DE LUMIÈRE

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Application
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Abstract (en)
[origin: WO2006015567A1] The invention relates to a layer arrangement for a light-emitting component, especially a phosphorescent organic light-emitting diode, which comprises a hole-injecting contact and an electron-injecting contact, each linked with a light-emitting area. Said light-emitting area comprises a light-emitting layer from a material (M1) and another light-emitting layer from another material (M2), the material (M1) being ambipolar and preferably adapted to transport holes and the other material (M2) being ambipolar and adapted to transport electrons. A heterojunction is configured in the light-emitting area comprising the material (M1) and the other material (M2). A boundary surface between the material (M1) and the other material (M2) is of the staggered type II. The material (M1) and the other material (M2) contains admixed thereto one or more triplet emitter doping agents. An energy barrier for hole migration from the material (M1) to the other material (M2) and an energy barrier for electron migration from the other material (M2) to the material (M1) are each smaller than approximately 0.4 eV.

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