

Title (en)

ORGANIC LIGHT EMITTING FIELD EFFECT TRANSISTOR

Title (de)

ORGANISCHER LICHEMITTIERENDER FELDEFFEKTTRANSISTOR

Title (fr)

TRANSISTOR À EFFET DE CHAMP ORGANIQUE ÉLECTROLUMINESCENT

Publication

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Application

**EP 11707864 A 20110311**

Priority

- IT RM20100107 A 20100312
- EP 2011053699 W 20110311

Abstract (en)

[origin: WO2011110664A1] The present invention relates to an organic light emitting field effect transistor, OLEFET, (10) comprising a gate (G), a source (S) and a drain (D) electrode; a layered organic stack structure (1) including an organic layer (4) with predominant hole transporting character, an organic layer (2) with predominant electron transporting character and an organic active layer (3) having light emitting properties, the organic active layer (3) being interposed between the predominant hole and electron doped transport layers (4,2). The organic layer (4) with predominant hole transporting character and/or the organic layer (2) with predominant electron transporting character is doped in order to enhance the transport of holes/electrons. In addition, the layered organic stack structure (1) is positioned between said gate (G) and said source-drain electrodes.

IPC 8 full level

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Citation (search report)

See references of WO 2011110664A1

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