

Title (en)

ORGANIC LIGHT EMITTING DIODE DEVICES USING THERMOSTABLE HOLE-INJECTION AND HOLE-TRANSPORT COMPOUNDS

Title (de)

ORGANISCHE LEUCHTDIODEN MIT THERMISCH STABILEN LOCH-INJEKTIONS- UND LOCH-LEITER-MATERIALIEN

Title (fr)

DISPOSITIFS OLED A COMPOSES D'INJECTION ET DE TRANSPORT DE TROU THERMOSTABLES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO03003482A1] The present invention relates to multi-layered organic light emitting diode devices having hole-injection and/or hole-transport layers comprising aryl amine compounds with relatively high glass transition temperatures (i.e., thermostable aryl amine compounds). Such multi-layered OLED devices allow for a staircase change in the energy difference of holes and electrons as they migrate from the electrodes toward the emitter layer, resulting in a lower operating voltage and a high quantum yield of luminescence for a give current density. The present invention also relates to microdisplay devices comprising multi-layered organic light emitting diode devices having hole-injection and/or hole-transport layers comprising thermostable aryl amine compounds.

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IPC 8 full level

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