

Title (en)

SILICON PARTICLES USED AS ADDITIVES FOR IMPROVING THE CHARGE CARRIER MOBILITY IN ORGANIC SEMICONDUCTORS

Title (de)

SILIZIUMPARTIKEL ALS ADDITIVE ZUR VERBESSERUNG DER LADUNGSTRÄGERMOBILITÄT IN ORGANISCHEN HALBLEITERN

Title (fr)

PARTICULES DE SILICIUM EN TANT QU'ADDITIFS POUR L'AMELIORATION DE LA MOBILITE DES PORTEURS DE CHARGE DANS DES SEMI-CONDUCTEURS ORGANIQUES

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Application

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Abstract (en)

[origin: WO03094257A1] The invention relates to a semiconductor device comprising a semiconductor section made of an organic semiconductor material. Semiconductor particles or semiconductor clusters are statistically distributed within the organic semiconductor material. The semiconductor particles and/or semiconductor clusters can also be linked by linker molecules. The electrical properties, for example, of a field effect transistor comprising an aforementioned semiconductor section can be improved by adding semiconductor particles to the organic semiconductor material.

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