

Title (en)
DIPYRRIN BASED MATERIALS FOR PHOTOVOLTAICS

Title (de)
AUF DIPYRRIN BASIERENDES MATERIAL FÜR FOTOVOLTAIK

Title (fr)
MATÉRIAUX À BASE DE DIPYRRINE POUR PHOTOVOLTAÏQUE

Publication
EP 2850670 A2 20150325 (EN)

Application
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Abstract (en)
[origin: WO2014025435A2] The present disclosure generally relates to organic photosensitive optoelectronic devices comprising at least one boron dipyrin compound. In addition, the present disclosure relates to methods of making organic photosensitive optoelectronic devices comprising at least one boron dipyrin compound. The present disclosure also generally relates to chromophoric compounds that combine strong absorption of light at visible wavelengths with the ability to undergo symmetry-breaking intramolecular charge transfer (ICT), and their use for the generation of free carriers in organic photovoltaic cells (OPVs) and electric-field-stabilized geminate polaron pairs. The present disclosure also relates to the synthesis of such compounds, methods of manufacture, and applications in photovoltaic systems and organic lasers.

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