

Title (en)

ARCHITECTURE FOR HIGH EFFICIENCY POLYMER PHOTOVOLTAIC CELLS USING AN OPTICAL SPACER

Title (de)

ARCHITEKTUR FÜR EINE POLYMER-PHOTOVOLTAIKZELLE MIT HOHEM WIRKUNGSGRAD UNTER VERWENDUNG EINES OPTISCHEN ABSTANDHALTERS

Title (fr)

ARCHITECTURE POUR CELLULES PHOTOVOLTAIQUES POLYMERES A GRANDE EFFICACITE AVEC ENTRETOISE OPTIQUE

Publication

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Application

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Abstract (en)

[origin: WO2007040601A1] High efficiency polymer photovoltaic cells have been fabricated with an optical spacer between the active layer and the electron-collecting electrode. Such cells can exhibit approximately 50% enhancement in power conversion efficiency. The spacer layer increases the efficiency by modifying the spatial distribution of the light intensity inside the device, thereby creating more photogenerated charge carriers in the bulk heterojunction layer.

IPC 8 full level

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