

Title (en)
Photovoltaic elements.

Title (de)
Photoelektrisches Element.

Title (fr)
Élément transducteur photo-électrique.

Publication
EP 0000829 A1 19790221 (EN)

Application
EP 78300233 A 19780802

Priority
US 82111577 A 19770802

Abstract (en)
Photovoltaic elements having improved conversion efficiencies comprise a photovoltaic element which comprises (1) a first layer comprising an organic electron donor compound, in contact with (2) a second layer comprising an organic electron acceptor compound, said layers forming a rectifying junction between them and at least one of said layers being capable of absorbing radiation at wavelengths between 350 and 1000 nm, and (3) an electrode in operative ohmic contact with each of said layers, at least one of said electrodes being transparent to electromagnetic radiation to which the photo-voltaic element is sensitive, wherein the organic compound of each of layers (1) and (2) has a molecule having a planar polycyclic nucleus and wherein the combined thickness of the electron donor compound layer or layers and the electron acceptor compound layer or layers is no greater than 0.5 micron.

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IPC 8 full level
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Citation (search report)
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