

Title (en)

MULTILAYER ELECTRODE FOR PHOTOVOLTAIC COMPONENTS, METHOD FOR THE PRODUCTION THEREOF, AND PHOTOVOLTAIC COMPONENT COMPRISING SUCH A MULTILAYER ELECTRODE

Title (de)

MEHRSCHICHTELEKTRODE FÜR PHOTOVOLTAISCHE BAUELEMENTE, VERFAHREN ZU IHRER HERSTELLUNG UND PHOTOVOLTAISCHES BAUELEMENT MIT EINER SOLCHEN MEHRSCHICHTELEKTRODE

Title (fr)

ÉLECTRODE MULTICOUCHE POUR COMPOSANTS PHOTOVOLTAÏQUES, SON PROCÉDÉ DE FABRICATION ET COMPOSANT PHOTOVOLTAÏQUE PRÉSENTANT UNE TELLE ÉLECTRODE

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Abstract (en)

[origin: WO2010142268A2] A multilayer electrode is disclosed, at least comprising two metal layers that are arranged on an absorber. In said multilayer electrode, the first electrode layer E1 forming the boundary surface to the absorber is designed as a mixed layer A:B of a metal A of said electrode layer E1 and metal B of the second electrode layer E2, the concentration of metal A of electrode layer E1 being greater than the concentration of metal B of electrode layer E2. Furthermore, if the multilayer electrode is designed as a cathode, metal A has a lower work function than metal B, or if the multilayer electrode is designed as an anode, metal A has a higher work function than metal B and the first electrode layer E1 is thinner than the second electrode layer E2. A method for producing such a multilayer electrode and an organic solar cell comprising such a multilayer electrode are also disclosed.

IPC 8 full level

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Citation (examination)

REESE M O ET AL: "Pathways for the degradation of organic photovoltaic P3HT:PCBM based devices", SOLAR ENERGY MATERIALS AND SOLAR CELLS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 92, no. 7, 1 July 2008 (2008-07-01), pages 746 - 752, XP022615350, ISSN: 0927-0248, [retrieved on 20080417], DOI: 10.1016/J.SOLMAT.2008.01.020

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