

Title (en)

BACK CONTACT LAYER FOR PHOTOVOLTAIC CELLS

Title (de)

RÜCKSEITENKONTAKTSCHICHT FÜR FOTOVOLTAIKZELLEN

Title (fr)

COUCHE DE CONTACT ARRIÈRE POUR CELLULES PHOTOVOLTAÏQUES

Publication

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Application

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Abstract (en)

[origin: WO2014028526A2] A photovoltaic cell structure is disclosed that includes a back contact layer that includes single wall carbon nanotube elements. The single wall carbon nanotube (SWNT) back contact is in electrical communication with an adjacent semiconductor layer and provides a buffer characteristic that impedes elemental metal migration from the back contact into the semiconductor active layers. In one embodiment, the SWNT back contact includes a semiconductor characteristic and a buffer characteristic. In another embodiment, the SWNT back contact further includes a metallic characteristic.

IPC 8 full level

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Citation (search report)

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- [X] US 2012000525 A1 20120105 - FLOOD DENNIS J [US]
- [X] US 2010313951 A1 20101216 - NALAMASU OMKARAM [US], et al
- See references of WO 2014028526A2

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