

Title (en)  
PHOTOVOLTAIC CELL HAVING A NOVEL TCO LAYER BUILT THEREIN

Title (de)  
PHOTOVOLTAIKZELLE MIT EINER DARIN EINGEBAUTEN NEUARTIGEN TCO-SCHICHT

Title (fr)  
CELLULE PHOTOVOLTAÏQUE INCORPORANT UNE NOUVELLE COUCHE TCO

Publication  
**EP 2543077 A1 20130109 (FR)**

Application  
**EP 11712934 A 20110228**

Priority  
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Abstract (en)  
[origin: WO2011107701A1] The invention relates to a photovoltaic cell (100) including at least one transparent front surface substrate (10) that is particularly made of glass, said substrate protecting a stack of layers (30) that includes a layer (5), having photovoltaic properties, and a lower electrode (3) and upper electrode (6), said electrodes being placed on either side of said photovoltaic layer (5). Said cell is characterized in that at least the lower electrode (3), that is, the electrode closest to the front surface substrate (10), includes or consists of a transparent coating consisting of a mixed metal oxide made of at least the elements Zn, Al, and Ga that have the following composition in wt % on the basis of the corresponding oxides ZnO, Al<sub>2</sub>O<sub>3</sub>, and Ga<sub>2</sub>O<sub>3</sub>: 88% to 95.8% ZnO, 0.2% to 2% Al<sub>2</sub>O<sub>3</sub>, and 4% to 10% Ga<sub>2</sub>O<sub>3</sub>.

IPC 8 full level  
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