

Title (en)
SOLAR CELL HAVING POROUS STRUCTURE AND METHOD FOR FABRICATION THEREOF

Title (de)
SOLARZELLE MIT PORÖSER STRUKTUR UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
CELLULE SOLAIRE AYANT UNE STRUCTURE POREUSE ET SON PROCÉDÉ DE FABRICATION

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Application
EP 08793370 A 20080820

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Abstract (en)
[origin: WO2009025502A2] A solar cell comprises a silicon substrate having a first impurity region, and a semiconductor layer having a second impurity region, which has a porous structure consisting of a plurality of holes and is doped with a second impurity different from a first impurity used to form the first impurity region. Especially, the solar cell also includes another semiconductor layer doped with another first impurity having a high concentration, which is interposed between the silicon substrate having the first impurity region and the semiconductor layer having the second impurity region, as well as a passivation layer or an anti-reflective layer formed on an upper surface of the porous structure so as to passivate the silicon substrate.

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