

Title (en)
SOLAR CELL HAVING LIGHT TRAP

Title (de)
SOLARZELLE MIT LICHTFALLE

Title (fr)
CELLULE SOLAIRE AVEC PIÈGE À LUMIÈRE

Publication
EP 2301082 A2 20110330 (DE)

Application
EP 09757228 A 20090528

Priority
• EP 2009003833 W 20090528
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Abstract (en)
[origin: WO2009146845A2] One embodiment of the invention discloses a solar cell (100) having a light trap (104). The solar cell (100) comprises a photovoltaic element (101) having a front side (102) and an opposite rear side (103). The holographic element (104) is disposed on the front side of the photovoltaic element (101), wherein it allows at least part of the incident light (105) to pass and thus deflects said light into the photovoltaic element (101), without thereby concentrating said light, so that said light experiences an increase in optical path length between the front side (102) and rear side (103).

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Citation (search report)
See references of WO 2009146845A2

Citation (examination)
• DE 102007023583 A1 20081127 - SOLARTEC AG [DE]
• SHIH-SHOU LO ET AL: "Broad-band anti-reflection coupler for a : Si thin-film solar cell; Anti-reflection coupler for a : Si thin-film solar cell", JOURNAL OF PHYSICS D: APPLIED PHYSICS, INSTITUTE OF PHYSICS PUBLISHING LTD, GB, vol. 40, no. 3, 7 February 2007 (2007-02-07), pages 754 - 758, XP020112091, ISSN: 0022-3727, DOI: 10.1088/0022-3727/40/3/010

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