

Title (en)

OPTICALLY ACTIVE COATING FOR IMPROVING THE YIELD OF PHOTOSOLAR CONVERSION

Title (de)

OPTISCH AKTIVE BESCHICHTUNG ZUR VERBESSERUNG DES ERTRAGS BEI DER UMWANDLUNG VON SONNENLICHT IN ENERGIE

Title (fr)

REVETEMENT OPTIQUEMENT ACTIF POUR L'AMELIORATION DU RENDEMENT DE CONVERSION PHOTOSOLAIRE

Publication

EP 2873099 A1 20150520 (FR)

Application

EP 13744756 A 20130716

Priority

- FR 1256849 A 20120716
- FR 2013051707 W 20130716

Abstract (en)

[origin: WO2014013186A1] The invention relates to optically active coatings for improving the yield of photosolar conversion, consisting of a transparent matrix containing a plurality of optically active constituents absorbing the light energy in a first absorption wavelength λ_{A1} and reemitting the energy in a second wavelength λ_{R1} different from λ_{A1} , said optically active constituents being selected such that the reemission wavelength λ_{R1} of at least one type of constituent corresponds to the absorption wavelength λ_{A2} of at least one second type of constituent, characterised in that the $C2/C1$ ratio of concentration $C1$ of the optically active constituents of a first type in relation to the concentration $C2$ of the optically active constituents of said second type is between 0.13 and 0.26; C_i designating the concentration in moles per litre of the constituent i in relation to the doped matrix.

IPC 8 full level

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Citation (search report)

See references of WO 2014013186A1

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