

Title (en)

DEVICE AND METHOD FOR THE PHOTOVOLTAIC ABSORPTION OF INCIDENT LIGHT

Title (de)

VORRICHTUNG UND VERFAHREN ZUM PHOTOVOLTAISCHEN ABSORBIEREN VON EINFALLENDEN LICHT

Title (fr)

DISPOSITIF ET PROCÉDÉ D'ABSORPTION PHOTOVOLTAÏQUE DE LUMIÈRE INCIDENTE

Publication

**EP 2891188 A1 20150708 (DE)**

Application

**EP 13758799 A 20130828**

Priority

- DE 102012107998 A 20120829
- DE 102013100001 A 20130101
- DE 102013104452 A 20130501
- DE 102013106908 A 20130701
- EP 2013067835 W 20130828

Abstract (en)

[origin: WO2014033179A1] In order to further develop a device designed to concentrate incident light (L), in particular the light of the sun, comprising at least one cup body or mirror body (10) in particular having a spherical cross-section and/or in particular having a groove or trough shape, by means of which the incident light (L) can be directed or deflected or diverted toward at least one photovoltaic absorbing means (20), in particular toward at least one solar cell assembly, for example toward at least one solar cell plate or toward at least one solar cell bar, and a corresponding method, in such a way that shading effects have the least possible influence or no influence at all on the magnitude of the fraction of the incident light that is converted into electrical energy, the absorbing means (20) is arranged asymmetrically with respect to the cup body or mirror body (10), in particular with respect to the axis of symmetry of the cup body or mirror body (10), for example with respect to the center axis of the cup body or mirror body (10), in particular that the absorbing means (20) is arranged in the non-central or lateral or side region of the cup body or mirror body (10).

IPC 8 full level

**H01L 31/052** (2014.01); **H01L 31/0525** (2014.01)

CPC (source: EP)

**H01L 31/0521** (2013.01); **H01L 31/0547** (2014.12); **H02S 20/26** (2014.12); **H02S 20/30** (2014.12); **H02S 40/44** (2014.12); **Y02B 10/10** (2013.01); **Y02E 10/52** (2013.01); **Y02E 10/60** (2013.01)

Citation (search report)

See references of WO 2014033179A1

Citation (examination)

WO 2012028625 A2 20120308 - KAUSTIK SOLAR GMBH [DE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2014033179 A1 20140306**; DE 202013012512 U1 20170421; EP 2891188 A1 20150708

DOCDB simple family (application)

**EP 2013067835 W 20130828**; DE 202013012512 U 20130828; EP 13758799 A 20130828