

Title (en)

ADJUSTMENT-TOLERANT PHOTOVOLTAIC CELL

Title (de)

JUSTAGETOLERANTE PHOTOVOLTAISCHE ZELLE

Title (fr)

CELLULE PHOTOVOLTAÏQUE TOLÉRANT L'AJUSTEMENT

Publication

EP 2936566 A1 20151028 (DE)

Application

EP 13811523 A 20131219

Priority

- DE 102012025160 A 20121221
- EP 2013077406 W 20131219

Abstract (en)

[origin: WO2014096200A1] The invention relates to an adjustment-tolerant photovoltaic cell in which the front face has at least three sub-segments which can be directly struck by electromagnetic radiation. At least two sub-segments are in the form of a first segment type, and at least one sub-segment is in the form of a second segment type. The sub-segments are arranged such that at least two separate segment regions, which can be directly struck by the electromagnetic radiation, are formed for each of the first and the second segment types. At least two sub-segments of the first segment type are connected to each other in parallel and/or are connected to each other via a transition region which ensures the lateral flow of current. Furthermore, the sub-segments of the first segment type are connected in series to the at least one sub-segment of the second segment type. The photovoltaic cell can contain the segment regions either in a stepped design of the segment regions with at least two sub-cells and/or in a lateral design with adjacently arranged segment regions.

IPC 8 full level

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CPC (source: EP US)

H01L 31/0543 (2014.12 - EP US); **H01L 31/0687** (2013.01 - EP US); **Y02E 10/52** (2013.01 - EP US); **Y02E 10/544** (2013.01 - EP US)

Citation (search report)

See references of WO 2014096200A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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