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DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
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KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,

MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD,
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EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
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Declarations under Rule 4.17:

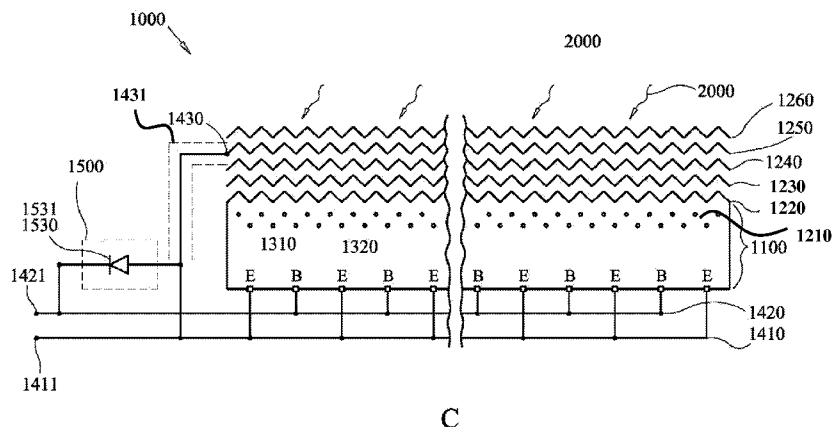
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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(54) Title: SELF-ACTIVATED FRONT SURFACE BIAS FOR A SOLAR CELL



(57) Abstract: A self-activated front surface bias for photovoltaic solar cell assembly is provided. The solar cell assembly comprises a front surface electrical bias activated by electrical energy generated by the solar cell assembly. The front surface bias improves generation efficiency for said solar cell assembly.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/038895**A. CLASSIFICATION OF SUBJECT MATTER****H01L 31/042(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
H01L 31/042Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility modelsElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: solar , field , bias**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 05215599 A (HINGORANI; NARAIN G. et al.) 01 June 1993 See abstract, claim 1 and figures 2-4.	1-10
A	US 2009-0032093 A1 (FANG LU) 05 February 2009 See abstract, paragraph[0013] and figure 4.	1-10
A	JP 2006-066550 A (SHARP CORP) 09 March 2006 See abstract, claim 1 and figure 1.	1-10
A	US 2010-0206359 A1 (EVANS MATTHEW H.) 19 August 2010 See abstract, claim 1 and figure 2.	1-10



Further documents are listed in the continuation of Box C.



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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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JP 2006-066550 A	09.03.2006	None	
US 2010-0206359 A1	19.08.2010	EP 2230548 A2 EP 2230548 A3	22.09.2010 30.01.2013