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- (81) **Designated States (unless otherwise indicated, for every
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DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KZ,
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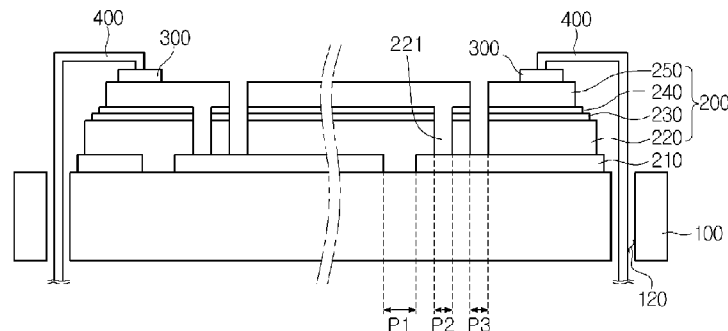
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(54) **Title:** SOLAR CELL AND METHOD OF MANUFACTURING THE SAME

[Fig. 2]



(57) **Abstract:** Provided is a solar cell. The solar cell includes: a substrate including through lines opposing to each other; a semiconductor layer on a top side of the substrate; bus lines at both edges of a top side of the semiconductor layer; and bus bars connected electrically to the bus lines, respectively, and extending to a rear side of the substrate through the through lines.

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 SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation 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 models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: bus bar, junction box

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2009-112503 A1 (SHELL ERNEUERBARE ENERGIEN GMBH et al.) 17 September 2009 See claims 1-14 and figures 1-6.	1-15
A	KR 10-2010-0109310 A (LG INNOTEK CO., LTD.) 08 October 2010 See abstract, claims 1-3 and figure 4b.	1-15
A	JP 2004-319615 A (FUJI ELECTRIC HOLDINGS CO., LTD.) 11 November 2004 See abstract and figures 1-2.	1-15



Further documents are listed in the continuation of Box C.



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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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KR 10-2010-0109310 A	08.10.2010	None	
JP 2004-319615 A	11.11.2004	None	