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DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
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MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE,
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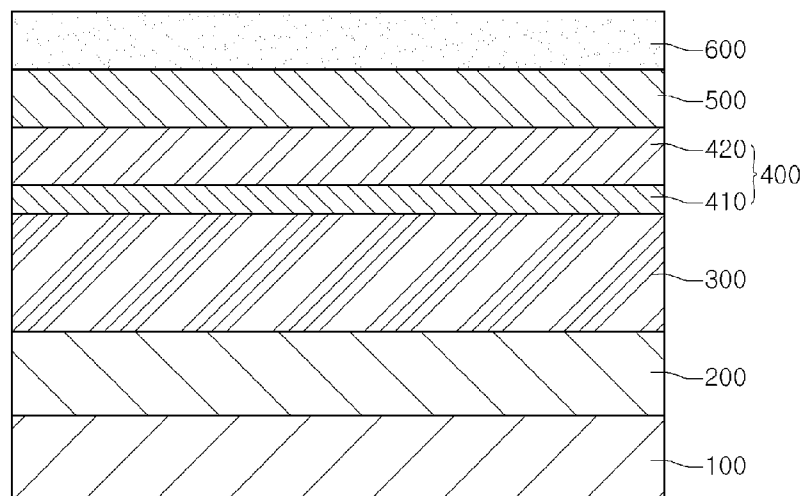
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(54) **Title:** SOLAR CELL APPARATUS AND METHOD OF FABRICATING THE SAME

[Fig. 1]



(57) **Abstract:** A solar cell apparatus according to the embodiment includes a substrate; a back electrode layer on the substrate; a light absorbing layer on the back electrode layer; a first buffer layer including CdS on the light absorbing layer; a second buffer layer including Zn on the first buffer layer; and a window layer on the second buffer layer.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2012/004294**A. CLASSIFICATION OF SUBJECT MATTER*****H01L 31/042(2006.01)i, H01L 31/18(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)

H01L 31/042; H01L 31/0749

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: CIGS, buffer, second

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 10-2011-0048262 A (LG INNOTEK CO., LTD.) 11 May 2011 See abstract, paragraphs [0013]-[0080] and figure 6.	1-14
X	KR 10-2011-0001734 A (LG INNOTEK CO., LTD.) 06 January 2011 See abstract, paragraphs [0016]-[0062] and figure 5.	1-14
X	KR 10-2010-0124741 A (SHOWA SHELL SEKIYU K. K.) 29 November 2010 See abstract, claims 1-16 and figure 1.	1-14

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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"&" document member of the same patent family

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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
KR 10-2011-0048262 A	11.05.2011	None	
KR 10-2011-0001734 A	06.01.2011	None	
KR 10-2010-0124741 A	29.11.2010	US 2011-0011451 A1 WO 2009-110093 A1	20.01.2011 11.09.2009