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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2010/037395**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)

H01L 31/042; G06F 15/16; H04J 3/22; H04B 7/02

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: passivation, layer, substrate, oxidize, nitride, silicon, metal, plasma and similar terms

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ARMIN G. ABERLE, 'Surface Passivation of Crystalline Silicon Solar Cells : A Review', Progress in Photovoltaics: Research and Applications, Vol. 8, 02 November 2000, pp. 473-487. See page 477, line 1- page 484, line 13 and figure 3.	1-15
Y	C. LEGUIJT et al., 'Low temperature surface passivation for silicon solar cells', Solar Energy Materials and Solar Cells, Vol. 40, Issue 4, 01 August 1996, pp. 297-345. See page 300, line 18- page 304, line 28 and figure 1.	1-15
A	O. SCHULTZ et al., 'SILICON OXIDE/ SILICON NITRIDE STACK SYSTEM FOR 20% EFFICIENT SILICON SOLAR CELLS', In : Photovoltaic Specialists Conference 2005, Conference Record of the Thirty-first IEEE, 07 Jan. 2005, pp. 872-876. See page 872- page 876 and figure 6.	1-15
A	JI YOUN LEE et al., 'Investigation of various surface passivation schemes for silicon solar cells', Solar Energy Materials and Solar Cells, Vol. 90, Issue 1, 06 Jan. 2006, pp. 82-92. See page 83, line 19- page 86, line 18 and figure 6.	1-15



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

15 DECEMBER 2010 (15.12.2010)

Date of mailing of the international search report

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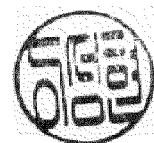
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2010/037395Patent document
cited in search reportPublication
datePatent family
member(s)Publication
date

None