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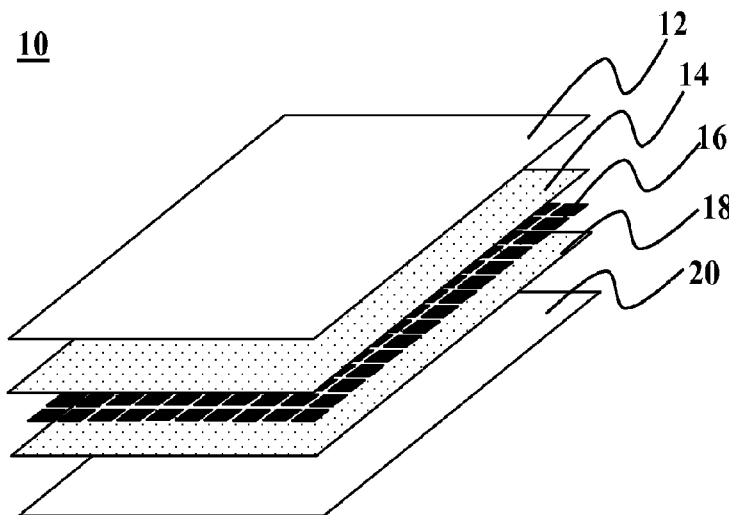
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- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) **Date of publication of the international search report:**  
4 March 2010

(54) **Title:** MOUNTING SYSTEM FOR SOLAR MODULES



**FIG. 1**

(57) **Abstract:** Methods and devices are provided for rapid solar module installation. In one embodiment, a photovoltaic module is provided comprising of a plurality of photovoltaic cells a plurality of photovoltaic modules; at least a first type of mounting bracket in contact with the module; at least a second type of mounting bracket, wherein the brackets are configured to interlock and connect multiple modules together.



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## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/US2008/075154****A. CLASSIFICATION OF SUBJECT MATTER***H01L 31/042(2006.01)i, F24J 2/52(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; E04D 13/18; E04D 3/40

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 since 1975.  
Japanese utility models and applications for utility models since 1975.

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

eKOMPASS(KIPO internal)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 11-324260 A (SANYO ELECTRIC CO., LTD. et al.) 26 November 1999 See abstract, paragraphs 9-20 and figs 1-4.	1-13
A	KR 20-1999-0000855 U (SAMSUNG ELECTRONICS ) 15 January 1999 See abstract and figs 3-5.	1-13
A	JP 2006-253497 A ( MITSUBISHI ELECTRIC CORP. ) 21 September 2006 See abstract and figs 1-2.	1-13
A	JP 03-481078 B2 (SEKISUI CHEM. CO., LTD. ) 10 October 2003 See abstract and fig 1.	1-13

 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

"E" earlier application or patent but published on or after the international filing date

"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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

17 DECEMBER 2009 (17.12.2009)

Date of mailing of the international search report

**21 DECEMBER 2009 (21.12.2009)**

Name and mailing address of the ISA/KR

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2008/075154

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

- 1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
- 2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
- 3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

- I. Claims 1-10 directed to a photovoltaic module mounting system.
- II. Claims 11-13 directed to a universal mounting assembly.

- 1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
- 2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
- 3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
- 4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

- Remark on Protest**
- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
  - The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
  - No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2008/075154**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 11-324260 A	26.11.1999	None	
KR 20-1999-0000855 U	15.01.1999	None	
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JP 03-481078 B2	10.10.2003	JP 10-317622 A	02.12.1998