

OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2018/041330**A. CLASSIFICATION OF SUBJECT MATTER****H02S 20/30(2014.01)i, H02S 30/10(2014.01)i, G08C 17/02(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)

H02S 20/30; B23P 15/26; F24J 2/52; H01L 23/32; H01L 31/042; H01L 31/048; H01L 31/05; H02S 30/10; G08C 17/02

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: transportable, configurable, modular, solar power, leg, shoe plate, frame, toggle anchor, installation

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2013-0167907 A1 (PANAGIOTIS G. BITARCHAS et al.) 04 July 2013 See paragraphs 37-84, claims 1-15 and figures 1-13.	83-85
A		1-8, 10-18, 20-34 , 39-82, 86-99
Y	US 2015-0034575 A1 (RYAN ROBERT WARPUP et al.) 05 February 2015 See paragraphs 27-28, claims 1-12 and figures 1-4.	83-85
A	WO 2017-027758 A2 (SMASH SOLAR, INC.) 16 February 2017 See the entire document.	1-8, 10-18, 20-34 , 39-99
A	US 2008-0264467 A1 (GILBERT DOKO) 30 October 2008 See the entire document.	1-8, 10-18, 20-34 , 39-99
A	US 2011-0132353 A1 (MICHAEL L. GUMM et al.) 09 June 2011 See the entire document.	1-8, 10-18, 20-34 , 39-99



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 another 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

28 February 2019 (28.02.2019)

Date of mailing of the international search report

28 February 2019 (28.02.2019)

Name and mailing address of the ISA/KR

International Application Division

Korean Intellectual Property Office

189 Cheongsa-ro, Seo-gu, Daejeon, 35208, Republic of Korea



Facsimile No. +82-42-481-8578

Authorized officer

PARK, Hye Lyun

Telephone No. +82-42-481-3463



INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US2018/041330**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.: 37
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:
Claim 37 is regarded to be unclear because the claim refers to a multiple dependent claim which does not comply with PCT Rule 6.4(a).
3. ☒ Claims Nos.: 9, 19, 35-36, 38
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:

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 fees, this Authority did not invite payment of any additional fees.
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/US2018/041330

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2013-0167907 A1	04/07/2013	WO 2013-103691 A1	11/07/2013
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		EP 2907166 A4	01/06/2016
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		WO 2014-059445 A3	23/07/2015
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		WO 2017-019719 A3	09/03/2017
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		DE 102004023043 B4	18/01/2007
		DE 112005001642 A5	31/05/2007
		EP 1807874 A2	18/07/2007
		WO 2005-108877 A2	17/11/2005
		WO 2005-108877 A3	03/08/2006
		WO 2005-108877 B1	12/10/2006
US 2011-0132353 A1	09/06/2011	None	