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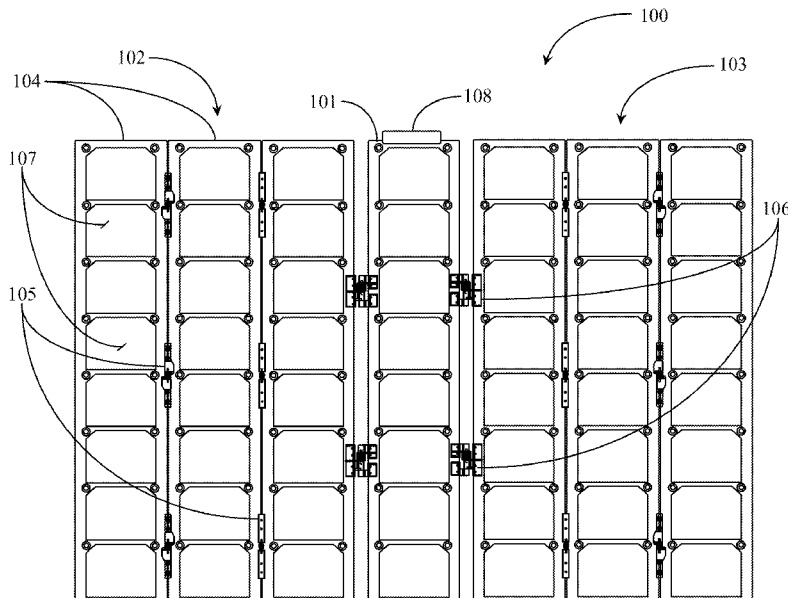


Fig. 1

(57) **Abstract:** A solar panel array includes a number of elongate printed circuit boards (PCBs), each PCB supporting a number of individual solar cells linearly mounted thereon and electrically connected in series to form a solar panel, and a number of hinge assemblies, each hinge assembly including two or more hinge bodies, two backing plates, one spring, and one hinge pin, the hinge assemblies mounted between adjacent solar panels using conventional hardware in a manner connecting them together such that they may be folded over one another in a fanfold arrangement or deployed out to one hundred and eighty degrees.



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INTERNATIONAL SEARCH REPORT

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PCT/US2011/044862**A. CLASSIFICATION OF SUBJECT MATTER***H01L 31/042(2006.01)i, H01L 31/05(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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H01L 31/042; B64G 1/44

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

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

eKOMPASS(KIPO internal) & Keywords: fold, spring, satellite

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 07-014659 U (SANO YOSHIO) 10 March 1995 See paragraphs [0010]-[0014], claim 1 and figures 1-4.	1,3-4,6-9 2,5,10-20
A	JP 2001-039400 A (DAIMLERCHRYSLER AG) 13 February 2001 See claims 1-2 and figures 1-2.	1-20
A	US 2009-0178703 A1 (GUMM MICHAEL L.) 16 July 2009 See abstract and figures 5-7.	1-20

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

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JP 07-014659 U	10.03.1995	None	
JP 2001-039400 A	13.02.2001	FR 2795465 A1 FR 2795465 B1 US 2003-0031505 A1 US 6488435 B1 US 6682020 B2	29.12.2000 09.01.2004 13.02.2003 03.12.2002 27.01.2004
US 2009-0178703 A1	16.07.2009	US 2009-0320898 A1	31.12.2009