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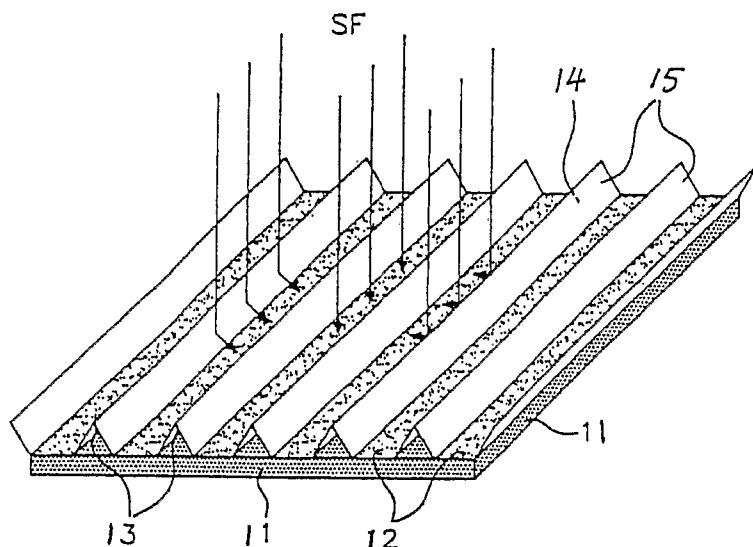
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(54) Title: SOLAR CONCENTRATOR



(57) Abstract: A space solar concentrator based on deployable reflectors attached to a panel base is described. Each of the reflectors includes sides coated with reflective coating on surfaces facing away from the base. In one embodiment, the sides of the reflector have thicker portion to provide stiffness for deployment absent compressive force, and thinner portion to reduce weight and storage energy. In another embodiment, both reflective sides are unfolded when the reflectors are in stowed position. During deployment, a stop side will limit the deployment of both reflective sides and ensure the proper reflecting position. In addition, these embodiments reduce the storage energy.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/36046

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H01L 31/045(2006.01),31/052(2006.01)**

USPC: 136/246,292

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)

U.S. : 136/246,292

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

Google scholar search terms: collapsible reflectors, solar cell arrays

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,177,627 B1 (MURPHY et al) 23 January 2001 (23.01.2001), figures 1 through 5, column 2 lines 51-56; column 3, line 58 - column 4, line 5.	1-3 ----- 4 and 20
X	US 6,528,716 B2 (COLLETTE et al) 4 March 2003 (04.03.2003), figures 1, 5B and 6A.	1
A	US 6,188,012 B1 (RALPH) 13 February 2001 (13.02.2001), entire document.	1-20
A	US 4,316,448 (DODGE) 23 February 1982 (23.02.1982), entire document.	1-20

Further documents are listed in the continuation of Box C.

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"A"	document defining the general state of the art which is not considered to be of particular relevance	"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
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"P"	document published prior to the international filing date but later than the priority date claimed		

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