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(54) Title: SOLAR RADIATION CONCENTRATORS, METHODS OF CONCENTRATING SOLAR RADIATION, AND SOLAR RADIATION CONCENTRATING PRISM LENSES

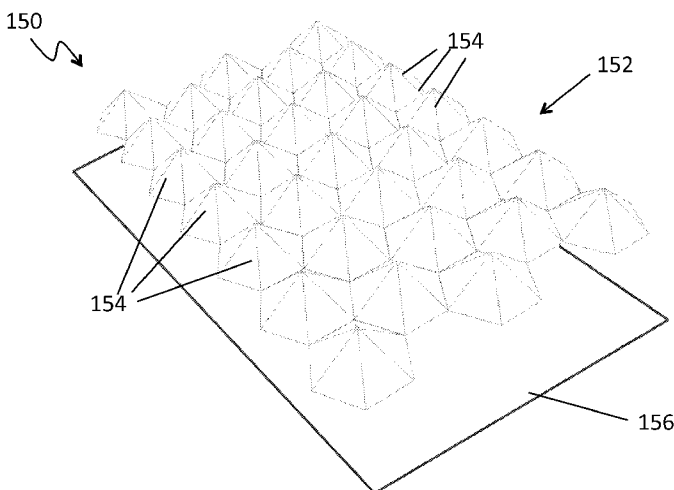


Figure 17

(57) Abstract: Solar radiation concentrators (10), methods of concentrating solar radiation and solar radiation concentrating prism lenses (12, 42) are provided. The solar concentrators (10) and methods employ an array of prism lenses (12, 42). The prism lenses are made from a solar radiation transmissible material and have converging planar sides (18), for example, at least 3 sides, for instance, 6 sides. The planar sides (18) of the prism lenses (12, 42) define a refractive surface positioned to receive and refract incident solar radiation and direct at least some of the incident radiation upon a target (30), for example, a solar cell. The concentrator (10) and methods may also include reflective surfaces (68, 184), such as, an array of reflective cavities. The reflective surfaces (68, 184) enhance the directing of radiation upon the target (30). Light diffusers (200) and methods of fabricating solar radiation concentrators and diffusers are also disclosed.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 F24J H02S H01L

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)
 EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/240754 A1 (GAYOUT PATRICK [FR] ET AL) 18 October 2007 (2007-10-18)	1,2,4, 6-10, 13-17, 19, 21-30, 51-54, 56-58, 60-64
Y	paragraph [0021]; figures 1-3,5 paragraph [0028] ----- -/--	3,5,18, 20,55,59

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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Y	column 4, line 17 - line 40; figures 2,3 column 5, line 20 - line 65	
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Y	paragraph [0076] - paragraph [0085]; figure 9b	
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Y	paragraph [0041] - paragraph [0056]; figures 1-5	
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	figure 5	

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