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(71) Applicant (for all designated States except US): **SOLYN-DRA, INC.** [US/US]; 47700 Kato Road, Fremont, CA 94538 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BREZOCZKY, Thomas** [US/US]; 47700 Kato Road, Fremont, CA 94538 (US). **BULLER, Benjamin** [IL/US]; 47700 Kato Road, Fremont, CA 94538 (US). **GRONET, Chris, M.** [US/US]; 47700 Kato Road, Fremont, CA 94538 (US).

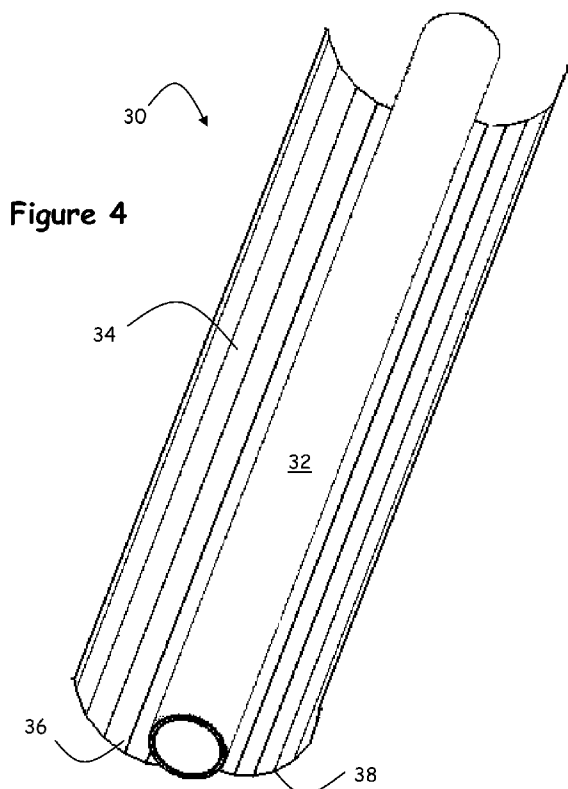
(74) Agents: **LOVEJOY, Brett, A.** et al.; Jones Day, 222 East 41st Street, New York, NY 10017-6702 (US).

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[Continued on next page]

(54) Title: AN ENCAPSULATED PHOTOVOLTAIC DEVICE USED WITH A REFLECTOR AND A METHOD OF USE FOR THE SAME



(57) Abstract: An apparatus is provided that has photovoltaic modules and a concentrator mechanically attached to a frame. Each module has (i) an outer shell defining an inner volume, (ii) a substrate in the inner volume, and (iii) a material on the substrate that converts light to electric energy. The outer shell allows light energy that strikes the shell to be directed towards the material. The concentrator has concentrator assemblies, each associated with a respective photovoltaic module. Each concentrator assembly comprises a first and second surface that form a concave structure that transmits light energy entering the concave structure to the associated photovoltaic module. The first and second surfaces each comprise substantially the shape of the involute of the particular photovoltaic module associated with the concentrator assembly. Each photovoltaic module extends from a first to a second support of the frame and is electrically coupled to an electric contact in the first support.



NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG,
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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)

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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 practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 662 722 A (HONDA MOTOR CO LTD [JP]) 12 July 1995 (1995-07-12) abstract; figures 3-6 column 4, line 46 - column 5, line 38	1-98
X	FR 2 327 643 A (COMMISSARIAT ENERGIE ATOMIQUE [FR]) 6 May 1977 (1977-05-06) abstract; figures 4a, 4b, 5, 7-9 page 5, line 21 - page 7, line 29	1-98
X	US 2007/215197 A1 (BULLER BENYAMIN [US] ET AL) 20 September 2007 (2007-09-20) abstract; figures 16, 19 paragraph [0283] claim 82	1-98
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☒ See patent family annex.

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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Favre, Pierre

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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