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- (71) Applicant (for all designated States except US): **OERLIKON USA, INC.** [US/US]; 10050 16th Street North, St. Petersburg, FL 33716 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **REYNOLDS, Glyn, J.** [GB/US]; 8640 Players Court, Largo, FL 33777 (US).
- (74) Agent: **KAUGET, Harvey**; Phelps Dunbar LLP, 100 South Ashley Drive, Suite 1900, Tampa, FL 33602 (US).
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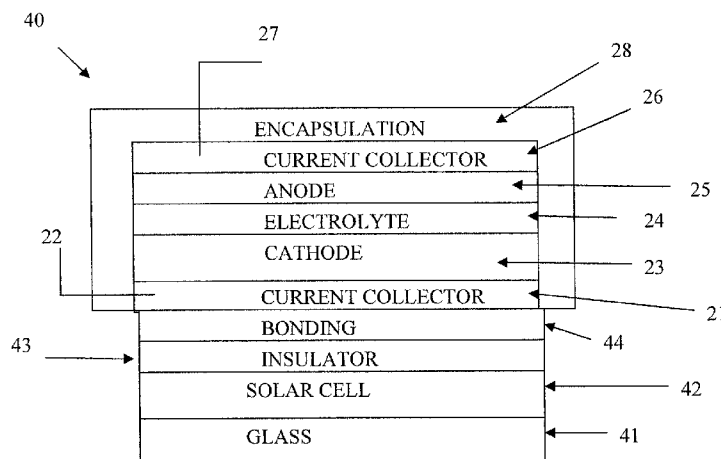


FIG. 4

(57) Abstract: The present invention provides a method and apparatus for providing an integrated electrochemical and solar cell. In one embodiment of the invention, an electrochemical cell with a self supporting ceramic cathode layer is electrically connected to a solar cell. In another embodiment of the invention, an electrochemical cell with a self supporting anode is provided. The present invention also contemplates methods of manufacturing the integrated electrochemical and solar cell wherein such methods provide weight savings and streamlined manufacturing procedures through the use of self supporting cathodes and anodes.

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B. FIELDS SEARCHED		
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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	US 4 740 431 A (LITTLE ROGER G [US]) 26 April 1988 (1988-04-26) cited in the application abstract; figures 1,4,5 column 4, line 6 - column 5, line 17 -----	1, 3-29, 55, 56
A	US 2003/038610 A1 (MUNSHI M ZAFAR A [US] ET AL MUNSHI M ZAFAR A [US] ET AL) 27 February 2003 (2003-02-27) abstract; figure 1 paragraph [0067] -----	1, 25, 30, 55, 56
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4740431	A	26-04-1988	NONE
US 2003038610	A1	27-02-2003	NONE