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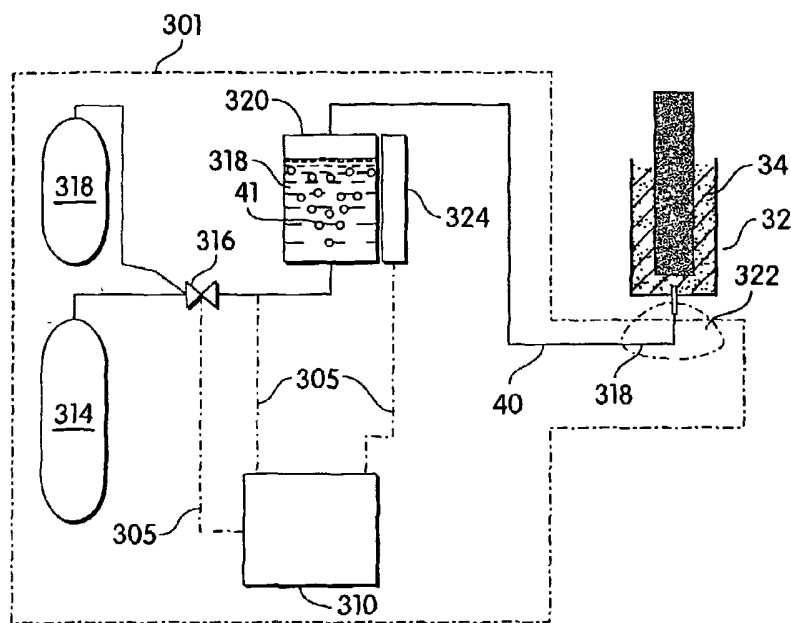
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- (74) Agent: **OYER, Timothy, J.**; Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210 (US).
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(54) Title: AN ELECTROCHEMICAL SYSTEM AND METHODS FOR CONTROL THEREOF



(57) Abstract: The present invention relates to an electrochemical device. The device features an anode constructed of materials such that the device can be chemically recharged. In addition, the device is capable of switching between operating as a fuel cell or as a battery. In certain aspects of the invention, the device includes a liquid anode (34) and is capable of operating at a temperature of less than 1000 °C. Other aspects feature a control system and a fuel delivery system (301) for the electrochemical system (32).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
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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)  
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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)  
EPO-Internal, PAJ, INSPEC, 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	WO 01 80335 A (CELLTECH POWER, INC) 25 October 2001 (2001-10-25) examples 2-4 ---	1-61
X	EP 1 132 986 A (TOYOTA MOTOR CO LTD) 12 September 2001 (2001-09-12) paragraph '0039!; claims 1-15 ---	1-4, 7, 16-19, 22
X	PATENT ABSTRACTS OF JAPAN vol. 009, no. 150 (E-324), 25 June 1985 (1985-06-25) & JP 60 032254 A (SHINKOUBE DENKI KK; OTHERS: 01), 19 February 1985 (1985-02-19) abstract --- -/--	1, 2, 16, 17, 23

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Patent family members are listed in annex.

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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.
X	US 3 741 809 A (ANBAR M) 26 June 1973 (1973-06-26)  column 5, line 62 -column 6, line 73; claims 1-4; figure 1; example 2 -----	1-7, 14-23, 36-38, 47,50
X	US 3 970 474 A (ANBAR MICHAEL ET AL) 20 July 1976 (1976-07-20)  column 4, line 45 -column 5, line 60; claims 1-3; figures 1,2; example 1 -----	1-7, 14-23, 36-38, 47,50
X	DE 40 04 220 C (KOCH, H H) 18 April 1991 (1991-04-18)  column 3, line 33 -column 5, line 1; claims 1-7; figures 1,3 -----	1-5, 14-21, 23,50,61

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