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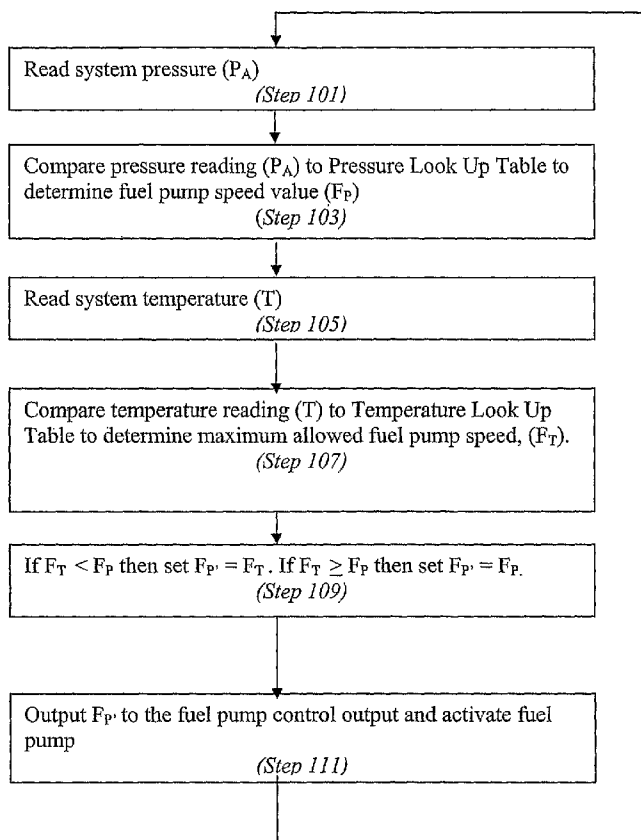
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(54) Title: SYSTEMS AND METHODS FOR CONTROLLING HYDROGEN GENERATION



(57) Abstract: Systems and methods are disclosed for monitoring at least two system parameters (such as system temperature or pressure, or system pressure at two different locations) of a hydrogen generation system and controlling hydrogen generation from a fuel solution. The system comprises a hydrogen generator having a fuel chamber for a liquid fuel, a reactor chamber where the fuel undergoes a reaction to produce hydrogen, and at least two sensors in communication with the reactor chamber, the sensors measuring at least two system parameters of the hydrogen generator. The methods include control sequences for controlling the fuel flow rate to the reactor based on the sensed parameters.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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

UPSTO - WEST - PGPB, USPT, EPAB, JPAB - terms: "hydrogen generation", "fuel chamber", "reactor", "temperature", "pressure", "fuel rate", "fuel flow", "pressure differential", "sensor", "reformable fuel", "fuel cell", "pump", "controller", "catalyst", query, search, refine

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 2004/0148857 A1 (STRIZKI et al.) 05 August 2004 (05.08.2004), entire document, especially para [0002-0003], [0013], [0015], [0020], [0024], [0028], [0032-0035], and [0037-0039].	1-5, and 17 ----- 6-16, and 18-60
Y	US 6,190,623 B1 (SANGER et al.) 20 February 2001 (20.02.2001), entire document, especially col 14, ln 32-49.	6-15, and 45, 46, 49
Y	US 6,740,437 B2 (BALLANTINE et al.) 25 May 2004 (25.05.2004), entire document, especially col 3, ln 25-28, col 4, ln 14-27, col 5, ln 62-67, col 6, ln 1-7, col 9, ln 48-57, col 10, ln 66-67, col 11, ln 1-12, and Claim 1.	12, 16, 18-60
Y	US 2004/0048115 A1 (DEVOS) 11 March 2004 (11.03.2004), entire document, especially para [0044].	11, 27, 46-49, and 60

Further documents are listed in the continuation of Box C.

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