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(54) Title: ELECTRONIC EVAPORATIVE EMISSIONS MANAGEMENT SYSTEM

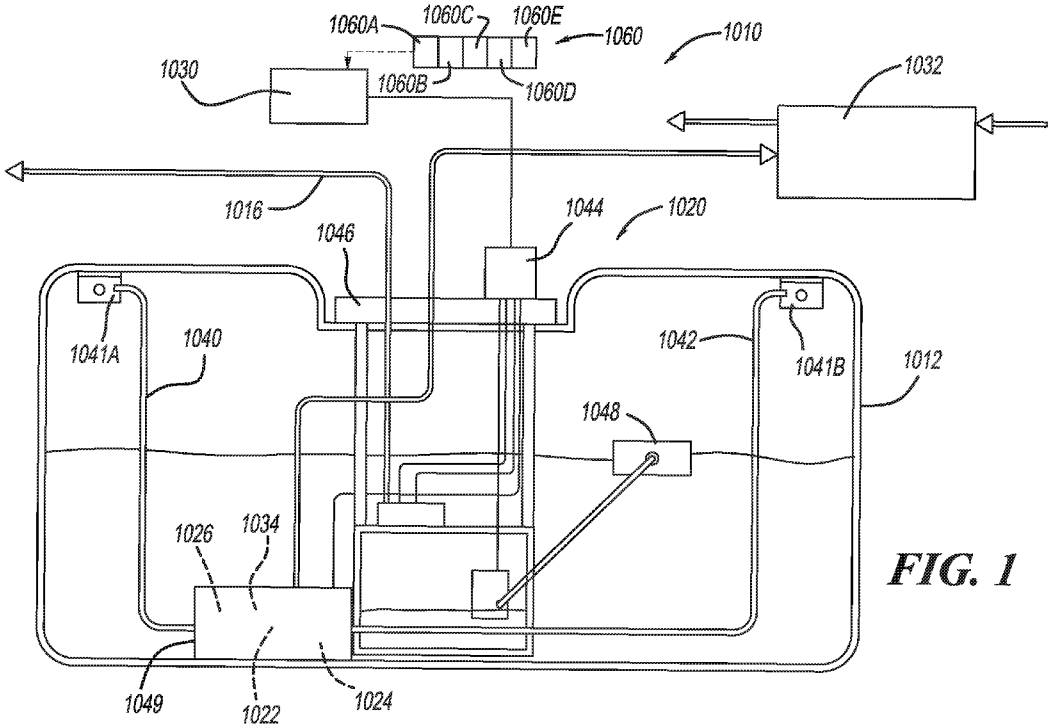


FIG. 1

(57) Abstract: A fuel tank system constructed in accordance to one example of the present disclosure includes a fuel tank, a first vent tube, an evaporative emissions control system and a cam driven tank venting control assembly. The first vent tube is disposed in the fuel tank. The evaporative emissions control system is configured to recapture and recycle emitted fuel vapor. The evaporative emissions control system has a controller. The cam driven tank venting control assembly has a rotary actuator that rotates a cam assembly based on operating conditions. The cam assembly has at least a first cam having a first cam profile configured to selectively open and close the first vent tube based on operating conditions.

[Continued on next page]

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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)
B60K 15/035; F16T 1/00; B01D 53/02; B08B 7/00; F02M 33/04; F02M 25/08; F02M 37/00; F02M 33/02; B60K 15/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & keywords: fuel tank, evaporative emission, vent, tube, valve, pressure, level, and acceleration

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2016-049320 A1 (EATON CORPORATION) 31 March 2016 See paragraphs [0042]-[0044], [0047], [0069], [0072], [0074], [0075] and figures 1, 2, 22-24.	1-13,16,17,20-23,25,30,32
A		14,15,18,19,24,26-29,31,33,34
Y	US 2012-0152210 A1 (REDDY et al.) 21 June 2012 See paragraphs [0022], [0024], [0026], [0027] and figures 2A-2C.	1-13,16,17,20-23,25,30,32
A	US 7448367 B1 (REDDY et al.) 11 November 2008 See column 3, line 47 - column 5, line 35 and figure 1.	1-34
A	US 2003-0205272 A1 (BENJEY et al.) 06 November 2003 See paragraphs [0016]-[0021] and figures 1, 2.	1-34
A	US 2012-0118159 A1 (KITAMURA et al.) 17 May 2012 See paragraphs [0014]-[0024] and figures 1, 2.	1-34

☐ Further documents are listed in the continuation of Box C.

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