

(11) **EP 2 299 095 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 10.05.2017 Bulletin 2017/19

(51) Int Cl.: F02D 41/02 (2006.01) F02D 41/22 (2006.01)

F02D 41/24 (2006.01)

(43) Date of publication A2: 23.03.2011 Bulletin 2011/12

(21) Application number: 10173319.4

(22) Date of filing: 18.08.2010

(84) Designated Contracting States:

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR Designated Extension States:

BA ME RS

BA ME RS

(30) Priority: **24.08.2009 JP 2009193106**

(71) Applicant: KAWASAKI JUKOGYO KABUSHIKI

KAISHA Chuo-ku Kobe-shi

Hyogo 650-8670 (JP)

(72) Inventor: Yamamoto, Norimasa

Akashi-shi

Hyogo 673-8666 (JP)

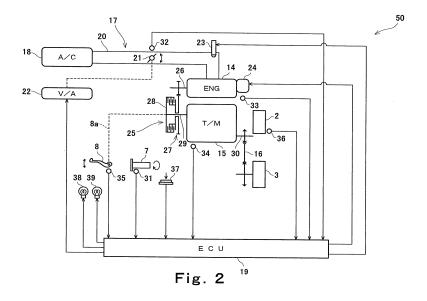
(74) Representative: Witte, Weller & Partner

Patentanwälte mbB Postfach 10 54 62 70047 Stuttgart (DE)

(54) Engine control system for a vehicle

(57) An engine control system (50) for a vehicle (1), which is configured to control an engine (14) using a plurality of control modes, comprising a controller (19) configured to selectively set a first control mode or a second control mode and to control the engine (14) using the set control mode, the engine (14) being operable with a smaller fuel amount in the second control mode than in the first control mode; and a mode switching device (37) for switching the control mode set in the controller (19)

between the first control mode and the second control mode; **characterized in that** the controller (19) is configured to determine that a command for switching the control mode is valid if a predetermined driving condition is met and to determine that the command is invalid if the predetermined driving condition is not met, in response to the command input to the mode switching device (37).



EP 2 299 095 A3



EUROPEAN SEARCH REPORT

DOCUMENTS CONSIDERED TO BE RELEVANT

Application Number

EP 10 17 3319

Category	Citation of document with indicat of relevant passages	ion, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)	
X	US 7 523 737 B2 (DEGUC AL) 28 April 2009 (200 * column 2, line 12 - * column 3, line 18 - * column 3, line 62 - * column 6, line 4 - c * column 6, line 66 - * figures 2,4 *	9-04-28) column 2, line 44 * column 3, line 23 * column 4, line 25 * olumn 6, line 14 *	1,2,10,	INV. F02D41/02 F02D41/24 F02D41/22	
X	US 7 487 033 B2 (HIJIK 3 February 2009 (2009- * column 3, line 60 - * column 4, line 66 - * column 7, line 20 - * column 8, line 6 - c * figures 2-5 *	02-03) column 3, line 67 * column 4, line 67 * column 7, line 36 *	1,2,10,		
A	US 2008/215217 A1 (UNN 4 September 2008 (2008 * page 5, paragraph 10 paragraph 104 * * figure 9 *	-09-04) 2 - page 6,	3,6,8	TECHNICAL FIELDS SEARCHED (IPC) F02D	
	The present search report has been	Date of completion of the search	1	Examiner	
	The Hague	30 March 2017	Des	seau, Richard	
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		E : earlier patent do after the filing do D : document cited L : document cited 	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons 8: member of the same patent family, corresponding document		

EP 2 299 095 A3

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 10 17 3319

5

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-03-2017

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
15	US 7523737 B2	28-04-2009	ES 2326947 A1 JP 4811241 B2 JP 2008128023 A US 2008115761 A1	21-10-2009 09-11-2011 05-06-2008 22-05-2008
	US 7487033 B2	03-02-2009	DE 102007023570 A1 US 2007271026 A1	29-11-2007 22-11-2007
20	US 2008215217 A1	04-09-2008	EP 1965098 A2 US 2008215217 A1	03-09-2008 04-09-2008
25				
30				
35				
40				
45				
50				
55	CHM POST			

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82