(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) **EP 2 942 515 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
02.12.2015 Bulletin 2015/49

(43) Date of publication A2:
11.11.2015 Bulletin 2015/46

(21) Application number: **15159323.3**

(22) Date of filing: **17.03.2015**

(51) Int Cl.:
F02D 41/38 *(2006.01)*

(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 RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
MA

(30) Priority: **25.03.2014 GB 201405272**

(71) Applicant: **Delphi International Operations Luxembourg S.à r.l.**
4940 Bascharage (LU)

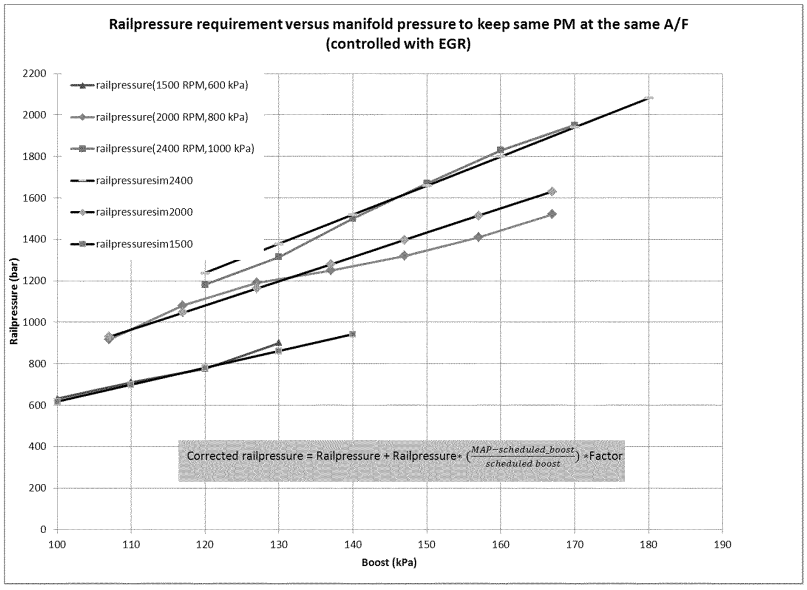
(72) Inventor: **Schreurs, Bart**
6700 Waltzing (BE)

(74) Representative: **Neill, Andrew Peter**
Delphi Diesel Systems
Patent Department
Courteney Road
Gillingham, Kent ME8 0RU (GB)

(54) FUEL DELIVERY PRESSURE CONTROL

(57) In an internal combustion engine, a method of controlling the pressure of a fuel accumulator volume which supplies fuel under pressure to one or more fuel injectors, comprising:
i) determining or measuring the actual pressure at the inlet manifold; and,
ii) determining an accumulator volume pressure based on the results of step i). The accumulator volume may be a common rail. The method may include determining the difference between the actual inlet/manifold pressure and a scheduled inlet /manifold pressure, and determining the accumulator volume based on this difference.

Figure 3a



EP 2 942 515 A3

Europäisches Patentamt
European Patent Office
Office européen des brevets

EUROPEAN SEARCH REPORT

Application Number
EP 15 15 9323

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 2011/036329 A1 (JUNG UWE [DE] ET AL) 17 February 2011 (2011-02-17) * paragraphs [0006] - [0008] *	1-7	INV. F02D41/38
A	DE 10 2010 033317 A1 (CONTINENTAL AUTOMOTIVE GMBH [DE]) 9 February 2012 (2012-02-09) * paragraphs [0005], [0006] *	1-7	

TECHNICAL FIELDS SEARCHED (IPC)

F02D

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	23 October 2015	Jackson, Stephen

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

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

& : member of the same patent family, corresponding document

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 15 15 9323

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.

23-10-2015

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2011036329 A1	17-02-2011	CN 102016271 A	13-04-2011
		DE 102008021581 B3	26-11-2009
		US 2011036329 A1	17-02-2011
		WO 2009132897 A1	05-11-2009
DE 102010033317 A1	09-02-2012	NONE	

EPO FORM P0459

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