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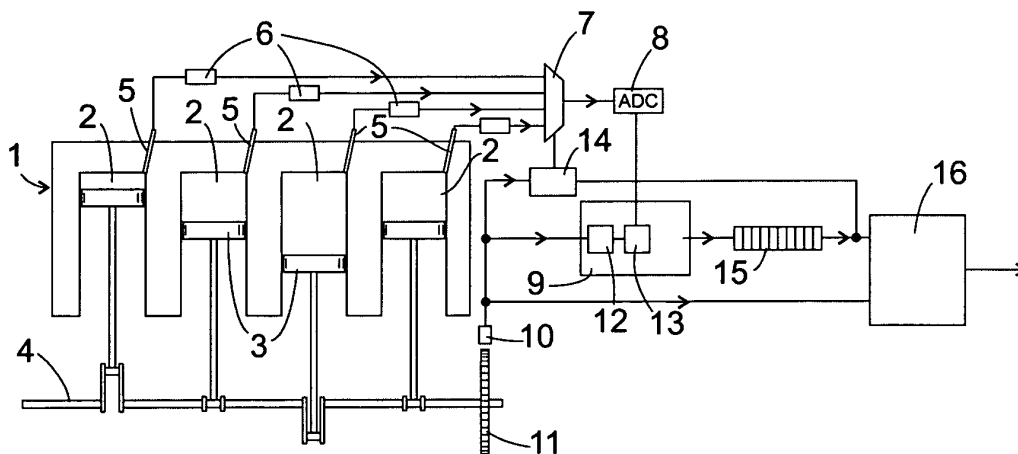
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(54) **Pressure monitoring system**

(57) A pressure monitoring system for a combustion engine comprises a plurality of combustion chambers (2) and a pressure sensors (5) associated to at least some of the combustion chambers (2). A multiplexer (7) has inputs connected to at least a first one and a second one of said pressure sensors (5). A non-zero phase shift exists between the operating cycles of first and second ones

of the combustion chambers (2) associated to said first and second pressure sensors (5). A controller (14) controls the multiplexer (7) to output data from the first pressure sensor (5) while the first combustion chamber (2) is in a predetermined portion of its operating cycle and pressure data from the second pressure sensor (5) while the second combustion chamber (2) is in said predetermined portion of its operating cycle.

**Fig. 1**





## EUROPEAN SEARCH REPORT

Application Number  
EP 08 00 9371

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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Y	* column 1, lines 33-45; figures 5-7,12 * * column 3, lines 37-47 * * column 11, line 16 - column 12, line 39 * * column 7, lines 21-61 * * column 8, lines 15-53 *	5-6	
X	US 2005/166665 A1 (HONDA TAKAYOSHI [JP]) 4 August 2005 (2005-08-04) * paragraphs [0073], [0103] - [0105], [0126] * * paragraphs [0151] - [0153] * * figures 12,18 *	1-4,7-10	
Y	US 5 623 412 A (MASSON OLIVIER [FR] ET AL) 22 April 1997 (1997-04-22) * column 4, lines 1-4, 45-63; figure 6 *	5-6	
			TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 21 July 2009	Examiner Röttger, Klaus
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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 &amp; : member of the same patent family, corresponding document</p>			

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

EP 08 00 9371

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  
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