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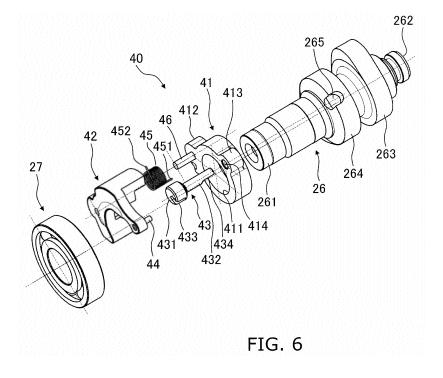
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(54) ENGINE AND VEHICLE

(57) A decompression mechanism includes a flange, a pivot pin, a weight, and a decompression cam. The flange is a body separate from the cam shaft and is press-fitted onto the cam shaft. The pivot pin is attached to the flange. The weight is supported on the cam shaft in a

rotatable manner between a closed state and an open state. The decompression cam switches between a state of coming into contact with a valve mechanism and a state of not coming into contact with the valve mechanism in response to the rotation of the weight.





EUROPEAN SEARCH REPORT

Application Number

EP 15 16 3608

		DOCUMENTS CONSID				
	Category	Citation of document with in of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)	
10	X	EP 1 380 729 A1 (TE [US]) 14 January 20 * abstract; figures	004 (2004-01-14)	1-4,9,10	INV. F01L13/08	
15	A	US 2006/048736 A1 (ET AL) 9 March 2006 * abstract; figures	SUGIURA TOSHIKAZU [JP] 5 (2006-03-09) ; *	1-10		
20	A	US 2006/225686 A1 (AL) 12 October 2006 * abstract; figures	ASANO YUUICHI [JP] ET (2006-10-12) ; * 	1-10		
25						
30					TECHNICAL FIELDS SEARCHED (IPC) F01L	
35						
40						
45						
2		The present search report has				
		Place of search	Date of completion of the search		Examiner	
50 9		Munich	17 December 2015	lson, Bo		
250 (100000) 28 S (000001)	X : part Y : part door A : tech O : nor	ATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with anot ument of the same category nnological background n-written disclosure	E : earlier patent doc after the filing date her D : document cited in L : document cited fo 	T: theory or principle underlying the i E: earlier patent document, but public after the filling date D: document cited in the application L: document cited for other reasons 8: member of the same patent family		
55	P: inte	rmediate document	document			

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

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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.

17-12-2015

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cited in search report		Publication date		Patent family member(s)		Publication date
EP 1380729	A1	14-01-2004	EP US	1380729 2004003791		14-01-2004 08-01-2004
US 2006048736	A1	09-03-2006	JP JP US	4234653 2006070831 2006048736	A	04-03-2009 16-03-2006 09-03-2006
US 2006225686	A1	12-10-2006	JP US	2006291778 2006225686	• •	26-10-2006 12-10-2006

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FORM P0459

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