



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 86 10 41

Classification of the application (IPC):

F02D 41/34, F02D 41/14, F02D 41/02, F02D 41/24, F01N 13/00, F01N 13/10

Technical fields searched (IPC):

F02D, F01N

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X Y	US 2013245920 A1 (VOS DAVID W [US] ET AL) 19 September 2013 (2013-09-19) * paragraphs [0035] - [0058]; figure 3 *	1-3, 7-15 4-6
X Y	US 2010258099 A1 (ANDERSSON MARTIN N [US] ET AL) 14 October 2010 (2010-10-14) * paragraphs [0141] - [0203], [0246]; figures 17A, 17B, 27 *	1-3, 7-15 4-6
Y	US 2015117490 A1 (FEYH ANDO [DE] ET AL) 30 April 2015 (2015-04-30) * paragraph [0015]; claims 1, 3, 10 *	4-6
A	DE 102005031591 A1 (MAN DIESEL SE [DE]) 25 January 2007 (2007-01-25) * paragraphs [0011] - [0022]; figure 1 *	1-15
A	US 7258107 B2 (ARCTIC CAT INC [US]) 21 August 2007 (2007-08-21) * column 3, line 12 - column 5, line 36; figures 2, 3 *	1-15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 16 April 2019	Examiner Deseau, Richard
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CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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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 16-04-2019
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2013245920 A1	19-09-2013	US 2013245920 A1 WO 2012012511 A1	19-09-2013 26-01-2012
US 2010258099 A1	14-10-2010	CN 101984762 A CN 103122800 A CN 103122817 A US 2010258099 A1 WO 2009055809 A2	09-03-2011 29-05-2013 29-05-2013 14-10-2010 30-04-2009
US 2015117490 A1	30-04-2015	NONE	
DE 102005031591 A1	25-01-2007	CN 1896477 A DE 102005031591 A1 FI 20060658 A JP 5426068 B2 JP 2007016783 A KR 20070005487 A	17-01-2007 25-01-2007 07-01-2007 26-02-2014 25-01-2007 10-01-2007
US 7258107 B2	21-08-2007	NONE	