

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/072466

A. CLASSIFICATION OF SUBJECT MATTER**F02B 37/18**(2006.01)i; **F16K 31/00**(2006.01)i; **F02D 41/20**(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F02B; F16K; F02D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 102008004688 A1 (CONTINENTAL AUTOMOTIVE GMBH [DE]) 23 July 2009 (2009-07-23)	1-3,5-8,10
Y	paragraphs [0001], [0003]; figures 1, 2	9
X	DE 102008004689 A1 (CONTINENTAL AUTOMOTIVE GMBH [DE]) 23 July 2009 (2009-07-23)	1,2,4-8,10
Y	paragraphs [0001], [0003], [0011]; figures 1, 2	9
Y	DE 102015110835 A1 (FORD GLOBAL TECH LLC [US]) 14 January 2016 (2016-01-14)	9
A	paragraphs [0001], [0003], [0036], [0038], [0043], [0044], [0051]	1
A	DE 102011075528 A1 (DENSO CORP [JP]) 01 December 2011 (2011-12-01)	1-3
	paragraphs [0024], [0044], [0092]; figure 1	

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

“A” document defining the general state of the art which is not considered to be of particular relevance

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“P” document published prior to the international filing date but later than the priority date claimed

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“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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“&” document member of the same patent family

Date of the actual completion of the international search

18 September 2018

Date of mailing of the international search report

25 September 2018

Name and mailing address of the ISA/EP

European Patent Office
p.b. 5818, Patentlaan 2, 2280 HV Rijswijk
Netherlands

Telephone No. (+31-70)340-2040

Facsimile No. (+31-70)340-3016

Authorized officer

Karstens, Thede

Telephone No.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

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Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
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				KR	20100102201	A	20 September 2010
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				US	2016010541	A1	14 January 2016
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				DE	102011075528	A1	01 December 2011
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