

INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP2018/072291

A. CLASSIFICATION OF SUBJECT MATTER  
INV. F01L13/00 F01L1/047  
ADD.  
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)  
F01L  
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	JP S59 194015 A (NIPPON SOKEN; TOYOTA MOTOR CO LTD) 2 November 1984 (1984-11-02) figures 1-4	1-5,7
X	JP S60 62614 A (NIPPON SOKEN; TOYOTA MOTOR CO LTD) 10 April 1985 (1985-04-10) figures 1-8	1-7
X	DE 10 2016 001537 A1 (DAIMLER AG [DE]) 10 August 2017 (2017-08-10) figures 1,2	1-7
A	DE 197 02 389 A1 (AUDI AG [DE]) 30 July 1998 (1998-07-30) figures 1-3	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
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "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
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search <b>17 October 2018</b>	Date of mailing of the international search report <b>24/10/2018</b>
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer <b>Aubry, Yann</b>

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2018/072291

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP S59194015	A	02-11-1984	NONE
JP S6062614	A	10-04-1985	NONE
DE 102016001537 A1	10-08-2017	DE 102016001537 A1 WO 2017137146 A1	10-08-2017 17-08-2017
DE 19702389	A1	30-07-1998	NONE