

**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/EP2018/070374

A. CLASSIFICATION OF SUBJECT MATTER  
INV. B60K15/03 G01S15/00 G01H3/00  
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)  
B60K G01S G01H

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.
A	US 5 522 428 A (DUVALL PAUL F [US]) 4 June 1996 (1996-06-04) the whole document	1-14
A	DE 103 54 473 A1 (FRAUNHOFER GES FORSCHUNG [DE]) 30 June 2005 (2005-06-30) claims; figures	1-14
A	DE 10 2012 217891 A1 (BOSCH GMBH ROBERT [DE]) 3 April 2014 (2014-04-03) paragraphs [0014] - [0018]; claims; figures	1-14
A	US 2010/001851 A1 (HANDA KIYOSHI [JP]) 7 January 2010 (2010-01-07) paragraphs [0016] - [0048]; figure 3	1-14
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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

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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 <b>10 October 2018</b>	Date of mailing of the international search report <b>19/10/2018</b>
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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>Chavel, Jérôme</b>
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International application No  
PCT/EP2018/070374

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2013/014200 A1 (INST SOUDURE [FR]; RAMADAN SALAH [FR]; YAACOUBI SLAH [FR]; MANDOUZE FR) 31 January 2013 (2013-01-31) pages 14-15; claims; figure 2 -----	1-14
A	FR 3 035 965 A1 (PEUGEOT CITROEN AUTOMOBILES SA [FR]) 11 November 2016 (2016-11-11) claims; figures -----	1-14
A	JP H07 77477 A (RION CO; KOBAYASHI RIGAKU KENKYUSHO) 20 March 1995 (1995-03-20) abstract -----	1-14

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/EP2018/070374
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Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
US 5522428	A	04-06-1996	NONE	
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DE 10354473	A1	30-06-2005	NONE	
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			JP 2010014624 A	21-01-2010
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