

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2018/053205

A. CLASSIFICATION OF SUBJECT MATTER
 INV. H02K7/18 B02C4/42 B02C21/02 B65G23/22 B60K6/12
 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)
 H02K B02C B65G B60K E02F

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2015/180281 A1 (AL-ATAT HASSAN [US] ET AL) 25 June 2015 (2015-06-25)	1,2,9,10
Y	paragraphs [0022] - [0024], [0045], [0046]; figures 1,7,8	3-8
Y	----- DE 20 2006 000664 U1 (LIEBHERR WERK BISCHOFSHOFEN [AT]) 24 May 2007 (2007-05-24) paragraphs [0005] - [0008], [0010], [0013] - [0021], [0027] - [0035]; figures	3
Y	----- DE 10 2011 002967 A1 (BOSCH GMBH ROBERT [DE]) 26 July 2012 (2012-07-26) paragraphs [0031] - [0033]; figure 3	4
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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	"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
"E" earlier application or patent but published on or after the international filing date	"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
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 26 April 2018	Date of mailing of the international search report 07/05/2018
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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 Kühn, Thomas
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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Y	EP 1 470 014 B1 (SHEP LTD [GB]) 19 April 2006 (2006-04-19) paragraphs [0004], [0025] - [0039]; figures 1-5 -----	5-8
A	EP 1 770 852 A1 (POSCH JUERGEN [DE]) 4 April 2007 (2007-04-04) paragraphs [0001] - [0003], [0008], [0017] - [0030]; figure 1 -----	1
A	DE 38 12 312 A1 (REXROTH MANNESMANN GMBH [DE]) 2 November 1989 (1989-11-02) column 2, line 17 - column 3, line 24; figures 3,4 -----	1

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Information on patent family members

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