

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2019/085301

A. CLASSIFICATION OF SUBJECT MATTER**F16D 21/06**(2006.01)i; **B60K 6/383**(2007.10)i; **B60K 6/40**(2007.10)i; **B60K 6/48**(2007.10)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)

F16D; B60B; B60K

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 Y	DE 102016002908 A1 (BORGWARNER INC [US]) 20 October 2016 (2016-10-20) paragraph [0028]; figures 6,7 paragraph [0040] - paragraph [0050]	1-4,7-9,12-15 6,11
X	EP 2050608 A1 (ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]) 22 April 2009 (2009-04-22) paragraph [0034] - paragraph [0040]; figure 5	1-4,10-15
X	DE 102012006730 A1 (BORGWARNER INC [US]) 02 October 2013 (2013-10-02) paragraph [0030] - paragraph [0036]; figures 1,2	1-4,10,12-15
X	DE 102016222420 A1 (VOLKSWAGEN AG [DE]) 17 May 2018 (2018-05-17) paragraph [0036] - paragraph [0048]; figure 1	1-4,9,10,12-15
X	US 2018119750 A1 (YOSHIMURA TOMOHIRO [JP] ET AL) 03 May 2018 (2018-05-03) paragraph [0026] - paragraph [0033]; figure 1	1,5
Y	DE 102011015642 A1 (SCHAEFFLER TECHNOLOGIES GMBH [DE]) 04 October 2012 (2012-10-04) paragraph [0010]	6

 Further documents are listed in the continuation of Box C.

 See patent family annex.

* Special categories of cited documents:

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“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

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“&” document member of the same patent family

Date of the actual completion of the international search

10 February 2020

Date of mailing of the international search report

24 February 2020

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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 102012207941 A1 (SCHAEFFLER TECHNOLOGIES AG [DE]) 13 December 2012 (2012-12-13) paragraph [0034]; figure 2	11
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/EP2019/085301

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