

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/092227

**A. CLASSIFICATION OF SUBJECT MATTER**

F16D 3/16(2006.01)i; F16D 3/06(2006.01)i; F16D 3/84(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)

F16D

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)

CNABS; CNKI; VEN: 传动, 轴, 花键, 万向节, 可拆卸, 凸缘, 法兰, 滑, 叉, transmiss+, shaft, spline, joint, replacement, flange, sliding, fork

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 107131221 A (KUNMING GUOZHOU TRANSMISSION MACHINERY CO., LTD. ET AL.) 05 September 2017 (2017-09-05) claims 1-10	1-10
Y	JP 6124822 A (KOYO KIKAI KOGYO) 03 February 1986 (1986-02-03) description, particular embodiments, and figures 1-4	1-10
Y	CN 105972106 A (HEFEI WANXIANG QIANCHAO AUTO PARTS CO., LTD.) 28 September 2016 (2016-09-28) description, paragraphs 15-17, and figure 2	1-10
A	CN 2202824 Y (CHENG, XIPING) 05 July 1995 (1995-07-05) entire document	1-10
A	US 6083108 A (GEN ELECTRIC) 04 July 2000 (2000-07-04) entire document	1-10
A	US 4203306 A (GELENKWELLENBAU GMBH) 20 May 1980 (1980-05-20) entire document	1-10

 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

"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)

"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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

06 September 2018

Date of mailing of the international search report

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**INTERNATIONAL SEARCH REPORT**  
**Information on patent family members**

International application No.

**PCT/CN2018/092227**

Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
CN 107131221	A 05 September 2017	None	
JP 6124822	A 03 February 1986	None	
CN 105972106	A 28 September 2016	None	
CN 2202824	Y 05 July 1995	None	
US 6083108	A 04 July 2000	CA 2269514 C FR 2778437 B1 KR 19990088088 A ZA 9902911 B AU 2695399 A GB 2337098 A ZA 9902911 A GB 2337098 B JP 2000154827 A TW 434087 B AU 753507 B2 CA 2269514 A1 FR 2778437 A1	03 July 2007 10 January 2003 27 December 1999 27 November 2000 18 November 1999 10 November 1999 27 November 2000 09 April 2003 06 June 2000 16 May 2001 17 October 2002 07 November 1999 12 November 1999
US 4203306	A 20 May 1980	SE 7810904 A SE 432976 B DE 2747319 C2 FR 2406744 A1 IT 1103048 B JP S5627735 B2 JP S5462441 A GB 2006393 B GB 2006393 A FR 2406744 B1 DE 2747319 B1	22 April 1979 30 April 1984 22 November 1979 18 May 1979 14 October 1985 26 June 1981 19 May 1979 31 March 1982 02 May 1979 01 March 1985 05 April 1979