

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2017/095014

A. CLASSIFICATION OF SUBJECT MATTER		
B62D 55/088 (2006.01) i; B62D 55/12 (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)		
B62D		
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, CPRSABS, DWPI, VEN, CNKI: 齿轮, 板, 壳, 罩, 轴, 链, 弹簧, gear, plate, shell, cover, shield, shaft, chain, spring		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 106697092 A (QUANZHOU QIMEI ELECTRONIC TECHNOLOGY CO., LTD.), 24 May 2017 (24.05.2017), claims 1-5	1-5
A	CN 105593111 A (YANMAR CO., LTD.), 18 May 2016 (18.05.2016), description, paragraphs [0038]-[0097], and figures 1-17	1-5
A	CN 103899735 A (DOOSAN INFRACORE CO., LTD.), 02 July 2014 (02.07.2014), entire document	1-5
A	CN 104210569 A (XCMG CONSTRUCTION MACHINERY CO., LTD.), 17 December 2014 (17.12.2014), entire document	1-5
A	US 7980639 B2 (CATERPILLAR INC.), 19 July 2011 (19.07.2011), entire document	1-5
A	US 8167384 B2 (CATERPILLAR INC.), 01 May 2012 (01.05.2012), entire document	1-5
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents:	“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	
“A” document defining the general state of the art which is not considered to be of particular relevance	“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	
“E” earlier application or patent but published on or after the international filing date	“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	
“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)	“&” document member of the same patent family	
“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		
Date of the actual completion of the international search	Date of mailing of the international search report	
19 October 2017	16 November 2017	
Name and mailing address of the ISA State Intellectual Property Office of the P. R. China No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088, China Facsimile No. (86-10) 62019451	Authorized officer YAN, Zhou Telephone No. (86-10) 62085299	

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 106697092 A	24 May 2017	None	
CN 105593111 A	18 May 2016	JP 2015067208 A	13 April 2015
		WO 2015046533 A1	02 April 2015
CN 103899735 A	02 July 2014	CN 103899735 B	12 April 2017
		KR 20140084428 A	07 July 2014
CN 104210569 A	17 December 2014	CN 104210569 B	08 August 2017
US 7980639 B2	19 July 2011	US 2009200859 A1	13 August 2009
US 8167384 B2	01 May 2012	US 2011025122 A1	03 February 2011