

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/095177

A. CLASSIFICATION OF SUBJECT MATTER		
H04L 12/26(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)		
H04L G06F H04W		
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)		
CNPAT, CNKI, WPI, EPODOC: 轨道, 交通, 车辆, 容错, 交换机, 故障, 数据, 调度, Vehicle, track, traffic, railway, train, data, check, real-time, schedule, fault, switch		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 107276845 A (TSINGHUA UNIVERSITY ET AL.) 20 October 2017 (2017-10-20) description, paragraphs 24-56	1-6
A	CN 104796356 A (QINGDAO SIFANG ROLLING STOCK RESEARCH INSTITUTE CO., LTD.) 22 July 2015 (2015-07-22) description, paragraphs 53-82	1-6
A	CN 106330377 A (CRRC QINGDAO SIFANG ROLLING STOCK RESEARCH INSTOTUTE CO., LTD.) 11 January 2017 (2017-01-11) entire document	1-6
A	CN 103608762 A (HUAWEI TECHNOLOGIES CO., LTD.) 26 February 2014 (2014-02-26) entire document	1-6
A	CN 204272154 U (BEIJING ZONGHENG ELECTRO-MECHANICAL TECHNOLOGY DEVELOPMENT CO. ET AL.) 15 April 2015 (2015-04-15) entire document	1-6
A	CN 105978762 A (LIU, WEI) 28 September 2016 (2016-09-28) entire document	1-6
A	US 2014022912 A1 (BROADCOM CORPORATION) 23 January 2014 (2014-01-23) entire document	1-6
<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: "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 "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
10 September 2018		25 September 2018
Name and mailing address of the ISA/CN		Authorized officer
State Intellectual Property Office of the P. R. China No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088 China		
Facsimile No. (86-10)62019451		Telephone No.

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
CN 107276845 A	20 October 2017	None	
CN 104796356 A	22 July 2015	None	
CN 106330377 A	11 January 2017	None	
CN 103608762 A	26 February 2014	WO 2014179957 A1	13 November 2014
CN 204272154 U	15 April 2015	None	
CN 105978762 A	28 September 2016	None	
US 2014022912 A1	23 January 2014	KR 20140012886 A	04 February 2014
		EP 2863587 A2	22 April 2015
		EP 2690826 A2	29 January 2014
		TW 1508500 B	11 November 2015
		US 2015229585 A1	13 August 2015
		TW 201406109 A	01 February 2014
		CN 103581061 A	12 February 2014