

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/117546

A. CLASSIFICATION OF SUBJECT MATTER		
H04L 1/00(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; H04B		
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, EPODOC, WPI, IEEE: 多输入多输出, 多入多出, 预编码, 线性, 非线性, 迫零, 最小均方误差, 扰动, 模代, 取模, 指示, 协商, 信令, 参数, 数据流, 频段, 载波, MIMO, precod+, linear, VP, ZF, THP, MMSE, indicat+, MAC, RRC, channel, carrier, flow, stream		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 108667552 A (ZTE CORPORATION) 16 October 2018 (2018-10-16) description, paragraphs [0094], [0095], [0121]-[0166] and [0185]-[0198]	1-72
A	CN 106797273 A (HUAWEI TECHNOLOGIES CO., LTD.) 31 May 2017 (2017-05-31) entire document	1-72
A	CN 103731233 A (HUAWEI TECHNOLOGIES CO., LTD.) 16 April 2014 (2014-04-16) entire document	1-72
<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
02 July 2019		27 August 2019
Name and mailing address of the ISA/CN		Authorized officer
China National Intellectual Property Administration (ISA/CN) 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	108667552	A	16 October 2018	WO	2018177263	A1	04 October 2018
CN	106797273	A	31 May 2017	EP	3236605	A1	25 October 2017
				WO	2016095171	A1	23 June 2016
CN	103731233	A	16 April 2014	EP	2897303	A1	22 July 2015
				US	2015215012	A1	30 July 2015
				WO	2014056308	A1	17 April 2014