

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2018/071784

A. CLASSIFICATION OF SUBJECT MATTER

H04L 5/00 (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; 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; WPI; EPODOC; CNKI; 3GPP; IEEE: 相位噪声参考信号, 映射, 子载波, 常数, 调度带宽, 系统带宽, 参考信号, 相位噪声, 预编码, map, sub, signal, reference, map+, PCRS, carrier, compensation, noise, phase, OFDM

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 101594335 A (ZTE CORP.), 02 December 2009 (02.12.2009), description, page 1, paragraph 2, page 3, paragraph 2 and page 5, paragraphs 3-7	1-26
A	CN 105791200 A (ZTE CORP.), 20 July 2016 (20.07.2016), entire document	1-26
A	CN 101534285 A (ZTE CORP.), 16 September 2009 (16.09.2009), entire document	1-26
A	CN 101483466 A (ZTE CORP.), 15 July 2009 (15.07.2009), entire document	1-26
A	US 2010254471 A1 (KO, H. et al.), 07 October 2010 (07.10.2010), entire document	1-26

Further documents are listed in the continuation of Box C.

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 08 March 2018	Date of mailing of the international search report 02 April 2018
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 GONG, Lei Telephone No. (86-10) 53961773

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 101594335 A	02 December 2009	None	
CN 105791200 A	20 July 2016	None	
CN 101534285 A	16 September 2009	None	
CN 101483466 A	15 July 2009	None	
US 2010254471 A1	07 October 2010	KR 20100111608 A	15 October 2010