

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/104233

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
H04B 1/713(2011.01)i		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols)		
H04B; H04W; H04Q		
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, 3GPP: 资源交错, 跳频, 频率跳变, 资源, 先听后说, interlac+, hopping, FH, resource?, RB, PRB, OCB, Occupied channel bandwidth, Occupancy channel bandwidth, LBT, CCA		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	US 2017332440 A1 (QUALCOMM INCORPORATED) 16 November 2017 (2017-11-16) description, paragraphs [0084]-[0094] and [0110]-[0118], and figures 1-10	1-36
X	MEDIATEK INC. "PRACH Design in ELAA" 3GPP TSG RAN WG1 Meeting #84bis R1-162940, 15 April 2016 (2016-04-15), sections 1, 2, 7.3 and 3, and figures 1-5	1-36
X	MEDIATEK INC. "Considerations on ELAA PRACH Design" 3GPP TSG RAN WG1 Meeting #85 R1-165119, 27 May 2016 (2016-05-27), sections 1-3, 7.3 and 4, and figures 1-6	1-36
X	MEDIATEK INC. "Considerations on PRACH for LAA" 3GPP TSG RAN WG1 Meeting #84 R1-160975, 19 February 2016 (2016-02-19), sections 1-3, and figures 1-4	1-36
A	CN 101304280 A (ADAPT4, LLC) 12 November 2008 (2008-11-12) entire document	1-36
<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
05 November 2018		23 November 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)
US	2017332440	A1	16 November 2017	WO	2017196853	A1	16 November 2017
				TW	201743632	A	16 December 2017
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CN	101304280	A	12 November 2008	US	2004142696	A1	22 July 2004
				WO	2004054280	A2	24 June 2004
				EP	1570691	A2	07 September 2005
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