

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2020/081728

**A. CLASSIFICATION OF SUBJECT MATTER**

H04B 1/40(2015.01)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)

H04B; H04W; H04L

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)

WPI; EPODOC; CNPAT; CNKI: 功率, 开关, 传, 回, 反馈, 收发, 插损, 插入损耗, 耦合, 分集, 功率, 检测, 监测, loss, insert +, coupl+, power, detect+, monitor+, switch??. diversity, coupler, transceiver

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 110098840 A (VIVO COMMUNICATION TECHNOLOGY CO., LTD.) 06 August 2019 (2019-08-06) claims 1-12	1-12
Y	CN 109150327 A (VIVO COMMUNICATION TECHNOLOGY CO., LTD.) 04 January 2019 (2019-01-04) description, paragraphs 0026-0051, and figure 2	1-12
Y	CN 107465432 A (BEIJING XUNTONG ANTIAN COMMUNICATION TECHNOLOGY CO., LTD.) 12 December 2017 (2017-12-12) description paragraph 0024, figure 2	1-12
A	CN 106712798 A (YULONG COMPUTER TELECOMMUNICATION SCIENTIFIC (SHENZHEN) CO., LTD.) 24 May 2017 (2017-05-24) entire document	1-12
A	US 2013003617 A1 (QUALCOMM INCORPORATED) 03 January 2013 (2013-01-03) entire document	1-12

 Further documents are listed in the continuation of Box C. 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

11 June 2020

Date of mailing of the international search report

30 June 2020

Name and mailing address of the ISA/CN

**China National Intellectual Property Administration (ISA/  
CN)**  
No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing  
100088  
China

Facsimile No. (86-10)62019451

Authorized officer

Telephone No.

**INTERNATIONAL SEARCH REPORT**  
**Information on patent family members**

International application No.

**PCT/CN2020/081728**

Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
CN 110098840 A	06 August 2019	None	
CN 109150327 A	04 January 2019	None	
CN 107465432 A	12 December 2017	None	
CN 106712798 A	24 May 2017	None	
US 2013003617 A1	03 January 2013	WO 2013003820 A1	03 January 2013