

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2020/077678

A. CLASSIFICATION OF SUBJECT MATTER		
H04M 1/02(2006.01)i; H04Q 1/24(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) H04M; 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) CNKI, CNPAT, WPI, EPODOC: 天线, 长度, 主板, 电路板, 翻盖, 连接, 转, 单刀, 掷, 开关, 调谐, antenna?, flip+, phone, PCB, circuit, plate, board, rotat+, switch, tune, tuning		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 203661128 U (SHENZHEN XINLONGSHANG COMMUNICATION SCIENCE & TECHNOLOGY CO., LTD.) 18 June 2014 (2014-06-18) description, paragraphs 0001-0030, figures 1-3	1-3, 9-15
Y	CN 203661128 U (SHENZHEN XINLONGSHANG COMMUNICATION SCIENCE & TECHNOLOGY CO., LTD.) 18 June 2014 (2014-06-18) description, paragraphs 0001-0030, figures 1-3	4-8, 16-20
Y	CN 109950701 A (GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.) 28 June 2019 (2019-06-28) description, paragraphs 0001-0049, figures 1-6	4-8, 16-20
A	CN 202206437 U (LENOVO MOBILE COMMUNICATION TECHNOLOGY LTD.) 25 April 2012 (2012-04-25) entire document	1-20
A	US 2012086610 A1 (PANASONIC CORPORATION) 12 April 2012 (2012-04-12) entire document	1-20
<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 28 September 2020		Date of mailing of the international search report 21 October 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

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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 203661128 U	18 June 2014	None	
CN 109950701 A	28 June 2019	None	
CN 202206437 U	25 April 2012	None	
US 2012086610 A1	12 April 2012	JP 2011004106 A	06 January 2011
		WO 2010146739 A1	23 December 2010