

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2019/116597

A. CLASSIFICATION OF SUBJECT MATTER		
H01Q 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)		
H01Q; H04M		
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: 壳, 框架, 升, 移动, 降, 开关, 切换, 馈, 辐射, 距离, 位置, 驱动, 控制; antenna, shell, frame, lift, move, switch, radiate, distance, position, drive, control		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 109659671 A (VIVO MOBILE COMMUNICATION CO., LTD.) 19 April 2019 (2019-04-19) claims 1-8	1-8
Y	US 2007285320 A1 (SONY ERICSSON MOBILE COMMUNICATIONS AB) 13 December 2007 (2007-12-13) description, pages 2 and 3, and figures 2 and 3	1-8
Y	CN 104659484 A (XIAOMI TECHNOLOGY CO., LTD.) 27 May 2015 (2015-05-27) description, paragraphs [0048]-[0067], and figures 1 and 2	1-8
A	US 2012162040 A1 (Toru Taura et al.) 28 June 2012 (2012-06-28) entire document	1-8
<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
09 January 2020		31 January 2020
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	109659671	A	19 April 2019	None			
US	2007285320	A1	13 December 2007	EP	2044559	A1	08 April 2009
				CN	101490701	A	22 July 2009
				WO	2007145675	A1	21 December 2007
				IN	200900059	P1	29 May 2009
CN	104659484	A	27 May 2015	None			
US	2012162040	A1	28 June 2012	WO	2010109771	A1	30 September 2010
				JP	5565407	B2	06 August 2014