

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2016/108042

A. CLASSIFICATION OF SUBJECT MATTER

H04L 1/00 (2006.01) i; H03M 13/13 (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; H03M

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)

CNABS; CNTXT; VEN; USTXT; CNKI; IEEE: 信息, 冻结, 固定, 填充, 比特, 集, 位, 极化, 极性, 识别, 标识, 物理下行控制信道, 有效, 下行控制信息, PDCCH, DCI, information, frozen, bit, set, polar, identifi+, ID, physical downlink control channel, availab+, effective? downlink control information

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 103684477 A (HUAWEI TECHNOLOGIES CO., LTD.) 26 March 2014 (26.03.2014), see entire document	1-24
A	CN 103368583 A (HUAWEI TECHNOLOGIES CO., LTD.) 23 October 2013 (23.10.2013), see entire document	1-24
A	US 2015333775 A1 (BROADCOM CORPORATION) 19 November 2015 (19.11.2015), see entire document	1-24

Further documents are listed in the continuation of Box C.

See patent family annex.

<p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“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</p> <p>“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</p> <p>“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</p> <p>“&” document member of the same patent family</p>
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<p>Date of the actual completion of the international search</p> <p style="text-align: center;">11 August 2017</p>	<p>Date of mailing of the international search report</p> <p style="text-align: center;">21 August 2017</p>
<p>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</p>	<p>Authorized officer</p> <p style="text-align: center;">JIA, Yu</p> <p>Telephone No. (86-10) 62411258</p>

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2016/108042

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 103684477 A	26 March 2014	WO 2014044072 A1	27 March 2014
		RU 2610251 C2	08 February 2017
		EP 2899911 A1	29 July 2015
		RU 2015115507 A	20 November 2016
		CN 103684477 B	01 February 2017
		US 2015194987 A1	09 July 2015
		IN 201500852 P2	26 August 2016
CN 103368583 A	23 October 2013	WO 2013152605 A1	17 October 2013
		CN 103368583 B	17 August 2016
		EP 2824841 A1	14 January 2015
		US 2015026543 A1	22 January 2015
		EP 2824841 B1	27 April 2016
		US 9319070 B2	19 April 2016
US 2015333775 A1	19 November 2015	None	