

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2016/108152

A. CLASSIFICATION OF SUBJECT MATTER

H04W 40/10 (2009.01) i; H04W 40/02 (2009.01) i; H04W 84/20 (2009.01) 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; H04W

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: 网络, 节点, 簇头, 簇首, 选, 确定, 剩余, 能量, 功率, 不, 广播, 发送, 小于, 低于, 大于, 高于, 延时, 延后, 延迟, 推后, 推迟, 门限, 阈值, network, node, cluster head, select+, determin+, residual, energy, power, not, broadcast+, sent, send+, less, lower, more, higher, delay, threshold

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 103269485 A (BEIHANG UNIVERSITY) 28 August 2013 (28.08.2013), see description, paragraphs [0038]-[0055]	1-3, 5-13, 15-18
Y	CN 103269485 A (BEIHANG UNIVERSITY) 28 August 2013 (28.08.2013), see description, paragraphs [0038]-[0055]	4, 14
Y	CN 103945484 A (BEIJING RESEARCH CENTER FOR INFORMATION TECHNOLOGY IN AGRICULTURE) 23 July 2014 (23.07.2014) see description, paragraphs [0121]-[0124]	4, 14
A	CN 103298054 A (SICHUAN UNIVERSITY) 11 September 2013 (11.09.2013), see entire document	1-18

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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Date of the actual completion of the international search 15 August 2017	Date of mailing of the international search report 21 August 2017
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<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 JIA, Yu Telephone No. (86-10) 62411258</p>
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International application No.
PCT/CN2016/108152

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 103237334 A (TAIYUAN UNIVERSITY OF TECHNOLOGY) 07 August 2013 (07.08.2013), see entire document	1-18
A	KR 20100073826 A (KT CORPORATION) 01 July 2010 (01.07.2010), see entire document	1-18

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2016/108152

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 103269485 A	28 August 2013	None	
CN 103945484 A	23 July 2014	CN 103945484 B	30 June 2017
CN 103298054 A	11 September 2013	None	
CN 103237334 A	07 August 2013	CN 103237334 B	28 October 2015
KR 20100073826 A	01 July 2010	None	