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(71) Applicant: **QUALCOMM INCORPORATED** [US/US];
Attn: International IP Administration, 5775 Morehouse
Drive, San Diego, CA 92121-1714 (US).(72) Inventors: **SAMPATH, Hemanth**; 5775 Morehouse
Drive, San Diego, CA 92121-1714 (US). **WENTINK,
Maarten Menzo**; 5775 Morehouse Drive, San Diego, CA
92121-1714 (US). **MERLIN, Simone**; 5775 Morehouse
Drive, San Diego, CA 92121-1714 (US).(74) Agent: **BELADI, Sayed H.**; Attn: International IP Admin-
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DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
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KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU,
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TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA,
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UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,

[Continued on next page]

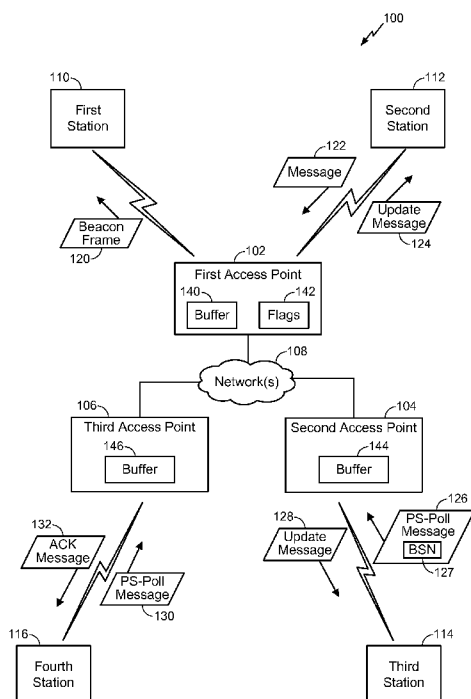
(54) Title: SYSTEMS AND METHODS TO TRANSMIT CONFIGURATION CHANGE MESSAGES BETWEEN AN ACCESS
POINT AND A STATION

FIG. 1

(57) Abstract: A particular method includes transmitting a frame from a sta-
tion to an access point. The frame includes a beacon sequence number related
to a configuration of the access point. The method also includes, in response
to transmitting the frame, receiving an update frame from the access point.
The update frame indicates at least one change in the configuration of the ac-
cess point.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

Published:

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2013/020857A. CLASSIFICATION OF SUBJECT MATTER
INV. H04W24/02
ADD.

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)
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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2008/133476 A1 (LG ELECTRONICS INC [KR]; FISCHER PATRICK [FR]; FEUILLETTE REMI [FR]) 6 November 2008 (2008-11-06) paragraph [0057] - paragraph [0060] paragraph [0133] - paragraph [0135]; figure 11 ----- -/--	1,7,27, 30,33,35



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

29 July 2013

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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Poort, Ingrid

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2013/020857

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SIMONE MERLIN (QUALCOMM INC): "Short Beacon ; 11-11-1503-01-00ah-short-beacon", IEEE DRAFT; 11-11-1503-01-00AH-SHORT-BEACON, IEEE-SA MENTOR, PISCATAWAY, NJ USA, vol. 802.11ah, no. 1, 9 November 2011 (2011-11-09), pages 1-11, XP017673186, [retrieved on 2011-11-09]	23-26, 31,32, 34,38,39
A	page 4 - page 6	1-22, 27-30, 33,35-37
Y	----- US 2008/225768 A1 (WENTINK MAARTEN MENZO [NL]) 18 September 2008 (2008-09-18)	23-26, 31,32, 34,38,39
A	paragraph [0082] - paragraph [0086]	1-22, 27-30, 33,35-37
X,P	----- JEONGKI KIM, LG ELECTRONICS: "System information update procedure for 11 ah", IEEE 802.11-12/1093R0, vol. IEEE 802.11ah, 17 September 2012 (2012-09-17), pages 1-11, XP002694803, the whole document	1-39
X,P	----- JEONGKI KIM (LG ELECTRONICS): "TGai Specification Text for enhanced active scanning procedure for FILS ; 11-12-1114-06-00ai-tgai-specification-text -for-enhanced-active-scanning-procedure-for-fils", IEEE SA MENTOR; 11-12-1114-06-00AI-TGAI-SPECIFICATION-TEXT -FOR-ENHANCED-ACTIVE-SCANNING-PROCEDURE-FOR-FILS, IEEE-SA MENTOR, PISCATAWAY, NJ USA, vol. 802.11ai, no. 6, 14 November 2012 (2012-11-14), pages 1-6, XP068039847, [retrieved on 2012-11-14] the whole document -----	23-26, 31,32, 34,38,39

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/020857

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-22, 27-30, 33, 35-37

Transmitting a frame from a station to an access point, and receiving at the station, in response to that frame, an update frame indicating at least one change in the configuration of the access point.

2. claims: 23-26, 31, 32, 34, 38, 39

Transmitting a frame from a station to an access point and receiving at the station an acknowledgement frame including an updated beacon sequence number related to an updated configuration of the access point in response to the frame.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2013/020857

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2008133476 A1	06-11-2008	US 2010182963 A1 WO 2008133476 A1	22-07-2010 06-11-2008
US 2008225768 A1	18-09-2008	NONE	