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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))

[Continued on next page]

(54) Title: METHODS AND APPARATUS FOR REDUCING POWER CONSUMPTION ASSOCIATED WITH PERFORMING RESELECTION IN A MULTI-RAT SYSTEM

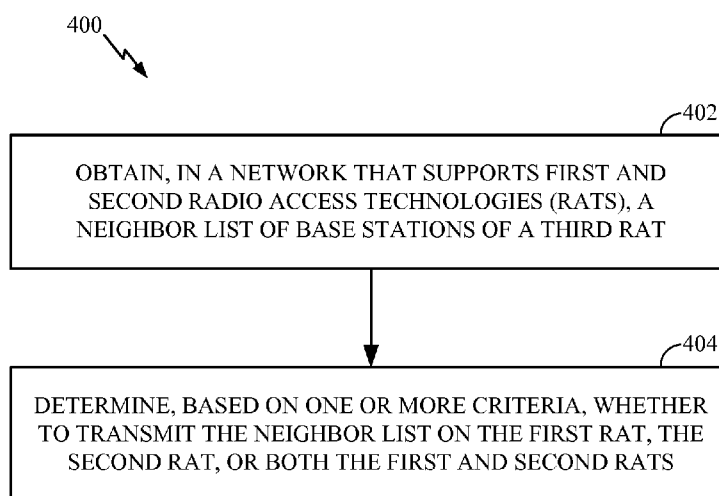


FIG. 4

(57) Abstract: Certain aspects of the present disclosure propose methods and apparatuses for reducing power consumption associated with performing reselection between radio access technologies (RATs). For example, a network that supports first and second RATs may obtain a list of neighbor base stations of a third RAT and determine whether to transmit the neighbor list on the first RAT, the second RAT, or both. In another aspect, a user equipment (UE) may combine information from the neighbor lists received from the first and the second RATs, and decide whether to take measurements in the third RAT based on the combined information. The UE may also maintain a central entity with measurements taken in the third RAT based on the neighbor lists received from the first and the second RATs and decide whether to perform cell reselection based on measurements in the central entity.





— *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))*

(88) **Date of publication of the international search report:**
22 November 2012

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2012/030908

A. CLASSIFICATION OF SUBJECT MATTER

INV. H04W36/00

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, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	"3GPP2 C.S0087-0 v2.0, E-UTRAN - cdma2000 HRPD Connectivity and Interworking: Air Interface Specification", 3RD GENERATION PARTNERSHIP PROJECT 2 "3GPP2", [Online] 1 January 2010 (2010-01-01), pages 1-409, XP002677256, Retrieved from the Internet: URL:http://www.3gpp2.org> [retrieved on 2012-06-06] cited in the application chapter 1 "OVERVIEW" chapter 5.4.6.1.6.8 "Transmission and Processing of the NeighborList Message" chapter 5.4.6.2.5 "NeighborList" chapter 5.5 "Inter-RAT Overhead Messages Protocol" chapter 5.12 "Inter-RAT Overhead Messages Protocol based on C.S0024-B" -/-	1-11, 36-38, 45-47, 54-56



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

6 September 2012

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INTERNATIONAL SEARCH REPORT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	chapter 7 "E-UTRAN NEIGHBOR RECORDS FORMAT" chapter 8 "E-UTRAN NEIGHBOR RECORD PROCESSING FOR HRPD" ----- "3GPP2 C.P0097-0 initial draft, E-UTRAN - cdma2000 1x Connectivity and Interworking Air Interface Specification", 3RD GENERATION PARTNERSHIP PROJECT 2 "3GPP2", [Online] 1 January 2011 (2011-01-01), pages 1-69, XP002677257, Retrieved from the Internet: URL:http://www.3gpp2.org> [retrieved on 2012-06-06] cited in the application chapter 1 "OVERVIEW" chapter 4.5 "E-UTRAN Neighbor Record Processing for 1x" -----	1-11, 36-38, 45-47, 54-56
A	US 2010/142483 A1 (WU XIAOBO [CN] ET AL) 10 June 2010 (2010-06-10) paragraph [0002] paragraph [0188] -----	1-11, 36-38, 45-47, 54-56
X	EP 1 962 535 A1 (LG ELECTRONICS INC [KR]) 27 August 2008 (2008-08-27) -----	12-21, 23-35, 39,40, 42-44, 48,49, 51-53, 57,58, 60-62
A	paragraph [0002] paragraph [0028] paragraph [0033] paragraph [0055] paragraph [0072] - paragraph [0075] -----	22,41, 50,59
A	US 2010/278066 A1 (HOLE DAVID PHILIP [GB] ET AL) 4 November 2010 (2010-11-04) paragraph [0003] paragraph [0013] paragraph [0019] paragraph [0021] paragraph [0026] paragraph [0028] -----	12-25, 39-41, 48-50, 57-59

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/030908

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: 1-11, 36-38, 45-47, 54-56

Method for transmitting a neighbor list by an access terminal

2. claims: 12-35, 39-44, 48-53, 57-62

Method for obtaining different neighbor lists and combining information therefrom

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/030908

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010142483 A1	10-06-2010	CN 101374341 A	25-02-2009
		EP 2192734 A1	02-06-2010
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		WO 2010127836 A2	11-11-2010
