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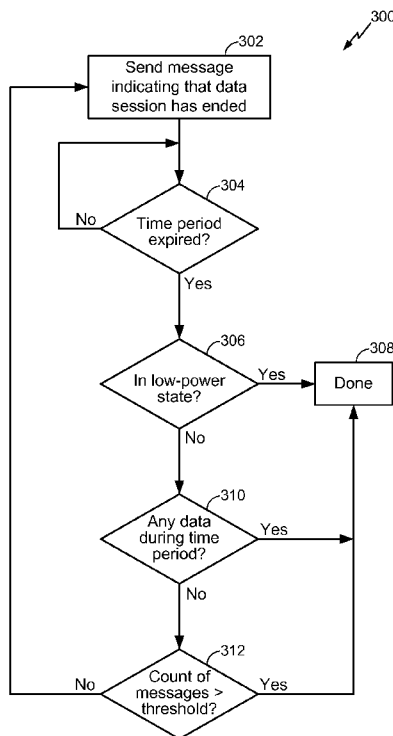


FIG. 3

(57) Abstract: In a particular embodiment, a method includes sending a message from a communication device to a radio network controller. The message indicates that a data session has ended. The data session is supported by a wireless channel between the communication device and the radio network controller. After a time period following the sending of the message, a second message is selectively sent to the radio network controller. The second message indicates that the data session has ended. The second message is selectively sent based at least in part on whether a measurement indicates that data was communicated via the wireless channel during the time period.

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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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— *with international search report (Art. 21(3))*

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INTERNATIONAL SEARCH REPORT

International application No PCT/US2011/045108

A. CLASSIFICATION OF SUBJECT MATTER

INV. H04W76/06 H04L29/08
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 H04L

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 practical, 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	RESEARCH IN MOTION LTD: "Modification to Fast Dormancy in PCH States", 3GPP DRAFT; R2-101441_25331-910_CRXXXX (REL-9)_FASTDOR MANCY PCH RESTRICT, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG2, no. San Francisco, USA; 20100222, 15 February 2010 (2010-02-15), XP050421681, [retrieved on 2010-02-15]	1-3, 7-12,16, 20
Y	page 1, line 1 - line 26 page 3, last line - page 5, line 14	4-6, 13-15, 17-19, 21-23
A	----- -/--	24-42



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 document 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

20 January 2012

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International application No

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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.
Y	RESEARCH IN MOTION LIMITED ET AL: "Fast Dormancy: A way forward", 3GPP DRAFT; R2-085134, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, no. Prague, Czech Republic; 20080923, 23 September 2008 (2008-09-23), XP050320063, [retrieved on 2008-09-23]	4-6, 13-15, 17-19, 21-23
A	page 1, line 22 - line 29	1-3, 7-12,16, 20,24-42
X	----- WO 2010/054391 A2 (RESEARCH IN MOTION LTD [CA]; SUZUKI TAKASHI [JP]; BURBIDGE RICHARD CHA) 14 May 2010 (2010-05-14)	24-42
A	page 7 - page 10, paragraph 28 page 11, paragraph 31 - page 13, paragraph 35 page 15, paragraph 40 - page 16, paragraph 42; figure 7	1-23
A	----- ERICSSON ET AL: "Clarifications on Fast Dormancy", 3GPP DRAFT; R2-095713, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, no. Miyazaki; 20091012, 12 October 2009 (2009-10-12), XP050390218, [retrieved on 2009-10-06] page 1, paragraph 1 - page 2, paragraph 2.3	1-42
A	----- US 2010/062781 A1 (DOLGANOW ANDREW [CA] ET AL) 11 March 2010 (2010-03-11) page 5, paragraph 61 - paragraph 74 -----	1-42

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/045108

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: 1-23

A method and corresponding apparatuses and computer readable medium comprising sending a message from a communication device to a radio network controller, the message indicating that a data session has ended, wherein the data session is supported by a wireless channel between the communication device and the radio network controller; and after a time period following the sending of the message, selectively sending a second message to the radio network controller, the second message indicating that the data session has ended, wherein the second message is selectively sent based at least in part on whether a measurement indicates that data was communicated via the wireless channel during the time period.

2. claims: 24-42

Methods and corresponding apparatuses and computer readable mediums comprising sending a message from a communication device to a radio network controller, the message indicating that a data session has ended, wherein receiving a dormancy request from an application executing at the communication device; in response to the dormancy request, executing the sending step; after expiration of a time period following sending of the message, providing state information to the application, the state information indicating whether the communication device is in an active state or in a low-power state; and in response to the state information indicating that the communication device is in the active state, receiving a second dormancy request from the application.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2011/045108

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
WO 2010054391	A2	14-05-2010	AU 2009313191 A1	14-05-2010
			CA 2743128 A1	14-05-2010
			CN 102210190 A	05-10-2011
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			WO 2010054391 A2	14-05-2010

US 2010062781	A1	11-03-2010	NONE	
