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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))

[Continued on next page]

(54) Title: NETWORK ELEMENT, INTEGRATED CIRCUIT, CELLULAR COMMUNICATION SYSTEM AND METHOD FOR CAPTURING USER EQUIPMENT MEASUREMENTS

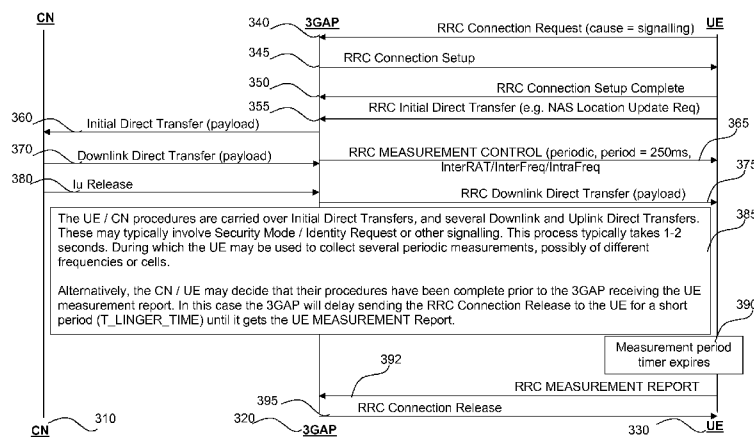


FIG. 3

(57) Abstract: A communication system comprising a core network operably coupled to a small base station (HNB) arranged to support wireless communications to a user equipment UE is described. The HNB comprises a control processor being arranged in a first embodiment to: support setting up of an air interface connection with the UE to allow the UE and the core network to exchange messages, e.g. for a Location Update procedure and to receive an instruction from the core network via a core network connection to release the connection to the core network; usually, the HNB would transmit a RRC Connection Release message to the UE; however, the UE utilizes this situation to request and receive UE measurements by using RRC Measurement Control/Report messages and thus delays the initiation of the RRC Connection Release procedure towards the UE; in a second embodiment, the control processor is arranged to autonomously page the UE; thus, the UE establishes a RRC connection for responding to the paging message and the HNB may request receive UE measurements

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

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

(88) Date of publication of the international search report:
12 September 2013

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2013/050868

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.

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2013/050868

A. CLASSIFICATION OF SUBJECT MATTER
 INV. H04W24/10
 ADD. H04W36/00 H04W76/06 H04W84/04 H04W76/04 H04W68/00

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	US 2009/247176 A1 (SONG OSOK [US] ET AL) 1 October 2009 (2009-10-01)	1,3,9-14
A	abstract figures 3a, 7, 8, 10 paragraph [0061] - paragraph [0062] paragraph [0063] - paragraph [0064] paragraph [0065] - paragraph [0068]	2,4-8
A	US 2011/195715 A1 (WU CHIH-HSIANG [TW]) 11 August 2011 (2011-08-11) abstract figure 3a paragraph [0005] - paragraph [0006] paragraph [0007] paragraph [0035] - paragraph [0037] ----- -/--	1-14

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 16 July 2013	Date of mailing of the international search report 23/07/2013
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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 Möll, Hans-Peter
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INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2013/050868

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 2010/137698 A1 (NTT DOCOMO INC [JP]; KAWABE YASUHIRO [JP]; MASUDA MASAFUMI [JP]) 2 December 2010 (2010-12-02) abstract & EP 2 437 552 A1 (NTT DOCOMO INC [JP]) 4 April 2012 (2012-04-04) abstract figures 1, 7, 8 paragraph [0083] - paragraph [0090]</p> <p style="text-align: center;">-----</p>	1,11-14
X	<p>US 2010/182919 A1 (LEE YOUNG-DAE [KR] ET AL) 22 July 2010 (2010-07-22) abstract figures 1, 4 paragraph [0002] - paragraph [0003] paragraph [0027] - paragraph [0029]</p> <p style="text-align: center;">-----</p>	15-27
X	<p>LG ELECTRONICS: "3GPP TSG-RAN WG2 Meeting#58; R2-071928; Discussion on Data Transmission in CELL_PCH", 3GPP DRAFT; R2-071928 DATA CELLPCH R1, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG2, no. Kobe, Japan; 20070504, 4 May 2007 (2007-05-04), pages 1-4, XP050134814, [retrieved on 2007-05-04] page 1, "1 Introduction"; page 3, Fig.3; pages 3-4, "4 RRC measurement reporting in CELL_PCH"</p> <p style="text-align: center;">-----</p>	15-27

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/EP2013/050868

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			US 2010182919 A1	22-07-2010
			WO 2008133471 A1	06-11-2008

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. claims: 1-14

maintaining an air interface connection between a network element and a terminal device to facilitate at least one non-core network communication between the network element and the terminal device, although an instruction has been received at the network element from the core network to release said air interface connection

2. claims: 15-27

autonomously - i.e. not initiated by a core network - paging a terminal device by a network element in order to create an air interface connection with the terminal device .
