

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 September 2004 (23.09.2004)

PCT

(10) International Publication Number
WO 2004/082094 A3

(51) International Patent Classification⁷: H04M 1/00

(21) International Application Number:
PCT/US2004/006534

(22) International Filing Date: 4 March 2004 (04.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/454,081 11 March 2003 (11.03.2003) US
10/726,426 3 December 2003 (03.12.2003) US

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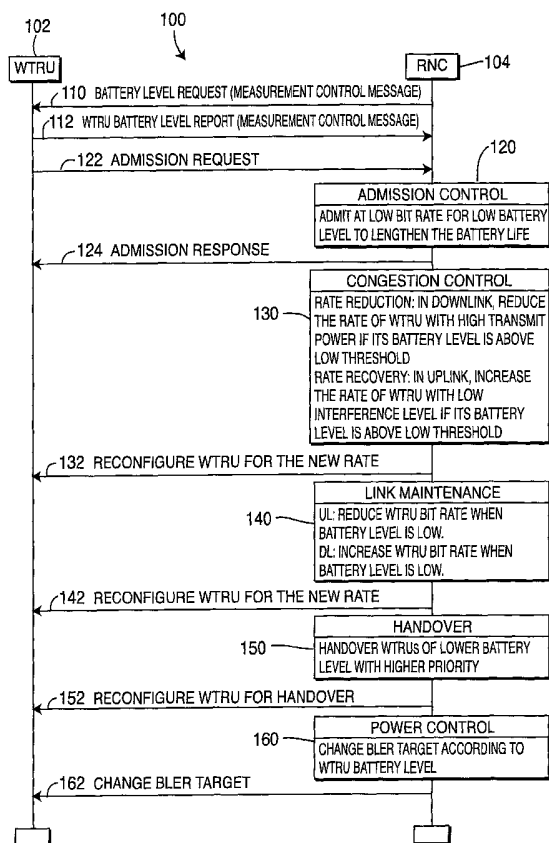
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR BATTERY CONSERVATION WITH ASSISTANCE FROM THE NETWORK AND RADIO RESOURCE MANAGEMENT



(57) Abstract: A method for battery conservation in a wireless communication system begins with requesting a battery level measurement from a wireless transmit/receive unit (WTRU) (102) by a radio network controller (RNC) (104). The battery level is measured at the WTRU (102) and is reported to the RNC (104). The battery level measurement is stored in the RNC (104), where it can be accessed by radio resource management (RRM) (100) procedures. The battery level measurement is applied to the RRM (100) procedures by making adjustments to the procedures based on the battery level measurement, whereby the battery of the WTRU (102) is conserved.

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TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:

4 August 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/06534

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04M 1/00
US CL : 455/574, 572

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)
U.S. : 455/574, 572, 573, 517

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0128051 A1 (LIEBENOW) 12 September 2002 (12.09.2002), page 1, paragraph [0006], page 2, [0017], and page 3, [0019].	1-4, 7-10, and 13
Y	US 2002/0098859 A1 (MURATA) 25 July 2002 (25.07.2002), page 1, paragraph 16, and page 2, paragraph 22.	1-4, 7-10, and 13
Y	US 2002/0094849 A1 (CANNON et al) 18 July 2002 (18.07.2002), page 2, paragraph [0019].	5-6 and 11-12
A	US 6,029,074 A (IRVIN) 22 February 2000 (22.02.2000), abstract, column 3, lines 5-25, column 4, lines 48-65, column 6, lines 27-58.	1-13
A	WO 99/17462 (THIERRY) 08 April 1999 (08.04.1999), abstract.	1-13

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	"I" 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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 28 January 2005 (28.01.2005)	Date of mailing of the international search report 20 JUN 2005
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230	Authorized officer William Trost Telephone No. 703-305-3900 <i>Karen D. Ward</i>

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/06534

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:
Please See Continuation 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 fee, this Authority did not invite payment of any additional fee.
 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.: 1-13
- Remark on Protest** The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/06534

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-13, drawn to a method for battery conservation, classified in class 455, subclass 574.

Group II, claim 14, drawn to a method for call admission control, classified in class 455, subclass 445.

Group III, claims 15-22, drawn to a method for congestion control, classified in class 455, subclass 453.

Group IV, claims 23-25 and 27-31, drawn to transmission power control, classified in class 455, subclass 522.

Group V, claim 26, drawn to a method for executing handover, classified in class 455, subclass 436.

The inventions listed as Groups I, II, III, IV, and V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: In the instant case, the inventions or groups of inventions have separate utility such as battery conservation, as opposed to call admission control, congestion control, transmission control or handoff.