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(54) Title: METHODS AND APPARATUS FOR USING CONTROL VALUES TO CONTROL COMMUNICATIONS PROCESSING

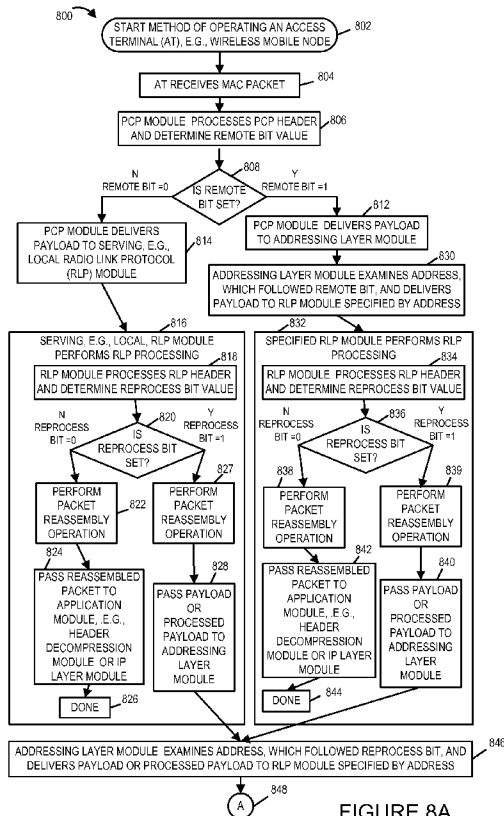


FIGURE 8A

(57) Abstract: Methods and apparatus for tunneling packets between remote and serving Access Points for delivery to an access terminal (AT) are described. Methods and apparatus for communicating control values and/or information in addition to information to be delivered to an AT over an airlink are also described. An AT uses the received control information to recover communicated packets. Some features support the use of various headers and/or indicators in the headers, e.g., RLP and/or Packet Correlation Protocol (PCP) headers, which may be used to control routing of communicated payloads to an RLP processing module corresponding to an AP which was the source of the communicated payload.

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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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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

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ADD. H04L12/28

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)
H04L H04Q

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, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>"Project Number 3-4875-RV1-AD2, proposed addendum of a TIA Standard, High Rate Packet Data Air Interface, (if approved, to be published as TIA-856-A-2); SP-3-4875-RV1-AD2"</p> <p>EIA/TIA DRAFTS, TELECOMMUNICATIONS INDUSTRY ASSOCIATION, ARLINGTON, VA, US, 5 May 2006 (2006-05-05), XP017005481 section 4.4</p> <p style="text-align: center;">----- -/--</p>	1-88

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.
- *G* document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

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.
A	AIRVANA: "Commercial-Grade VoIP over 1xEV-DO Rev A" INTERNET CITATION, [Online] 8 February 2005 (2005-02-08), XP007904045 Retrieved from the Internet: URL: http://www.cdg.org/news/events/CDMASeminar/050208_VoIP_Summit/8-Vedat%20Eyuboglu-Airvana.pdf [retrieved on 2008-02-12] page 15 - page 16	1-88
A	US 2005/002363 A1 (CHENG MARK W [US] ET AL CHENG MARK W [US] ET AL) 6 January 2005 (2005-01-06) paragraph [0012]	1-88
X	WO 99/59364 A (NOKIA NETWORKS OY [FI]; BERGENWALL MARTIN [FI]; RAESAENEN JUHA [FI]; I) 18 November 1999 (1999-11-18)	33-39, 50-59
A	page 8, line 1 - line 17	1-32, 40-49, 60-88
A	WO 00/28714 A (ERICSSON TELEFON AB L M [SE]) 18 May 2000 (2000-05-18) page 5, line 4 - line 14	60-88

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/070624

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 allsearchable 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: 1-32,40-49

Method directed to processing a payload of an RLP packet.

2. claims: 33-39,50-59

Method directed to transmitting an RLP packet over an air link.

3. claims: 60-88

Method directed to transmitting a packet to a remote access terminal.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/070624

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005002363 A1	06-01-2005	BR PI0412271 A	05-09-2006
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