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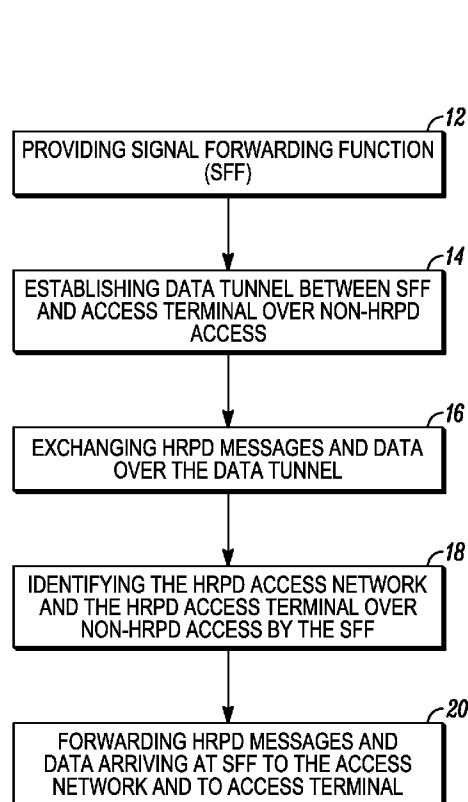
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[Continued on next page]

(54) Title: METHOD OF ESTABLISHING A HRPD SIGNAL LINK



(57) Abstract: A method (10) of establishing an alternate HRPD signaling link between an HRPD access network and an access terminal over a non-HRPD access is disclosed. It includes: providing (12) a signal forwarding function (SFF) (22) between an access terminal (AT) (24) and a high rate packet data (HRPD) access network (AN) (26); establishing (14) a data tunnel (28) between the access terminal (24) and the SFF (22); exchanging (16) HRPD signaling messages and HRPD data via the data tunnel (28); identifying (18) the HRPD access network (26) and the access terminal (24) over non-HRPD access by the SFF (22), by reading a header with certain identifiers and mapping the header to an address of the access terminal or network; and forwarding (20) the HRPD signaling messages and the HRPD data that arrive at the SFF (22) from the access terminal (24) and the HRPD access network (26) to the HRPD access network (26) and the access terminal (24), respectively. The method (10) performs an initiation and session establishment procedure, minimizes the time, disruption and packet loss during handoff to a HRPD access network and enables seamless mobility.

FIG. 2



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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. H04L12/56 H04W36/14

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 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 practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2006/109817 A1 (RAMANNA SHREESHA [US] ET AL) 25 May 2006 (2006-05-25) paragraph [0014] - paragraph [0016] paragraph [0069] - paragraph [0074] claims 8-11, 35-38	1-8
A	US 2006/126564 A1 (RAMANNA SHREESHA [US] ET AL) 15 June 2006 (2006-06-15) paragraph [0014] - paragraph [0016]	1-8

☐ 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

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- *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

12 November 2008

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/069911

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 reportcovers 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.:

see aditional sheet(s)

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: 1-8

claims 1-8: establishing an alternate HRPD signaling link.

2. claims: 9-20

claims 9-20: converting HRPD messages and data on to a generic container.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/069911

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2006109817	A1	25-05-2006	NONE	
US 2006126564	A1	15-06-2006	NONE	