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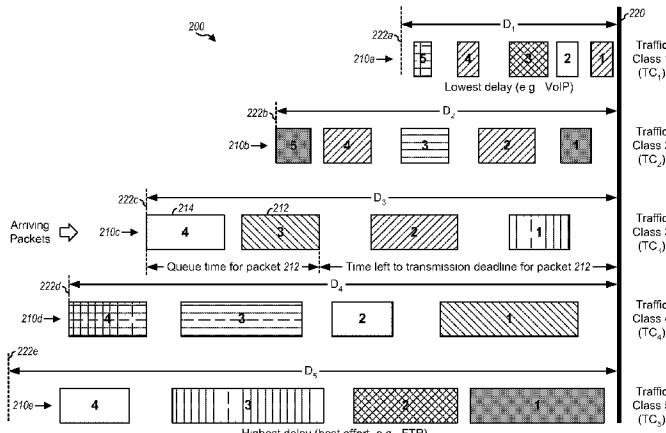
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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Hi))

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

*[Continued on next page]***(54) Title: PRIORITY SCHEDULING AND ADMISSION CONTROL IN A COMMUNICATION NETWORK**

HG. 2

(57) **Abstract:** Techniques for performing priority scheduling and admission control in a communication network are described. In an aspect, data flows may be prioritized, and packets for data flows with progressively higher priority levels may be placed at points progressively closer to the head of a queue and may then experience progressively shorter queuing delays. In another aspect, a packet for a terminal may be transferred from a source cell to a target cell due to handoff and may be credited for the amount of time the packet has already waited in a queue at the source cell. In yet another aspect, all priority and non-priority data flows may be admitted if cell loading is light, only priority data flows may be admitted if the cell loading is heavy, and all priority data flows and certain non-priority data flows may be admitted if the cell loading is moderate.

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INTERNATIONAL SEARCH REPORT

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

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 2005/129044 A1 (KATAYAMA TAUL [JP]) 16 June 2005 (2005-06-16) paragraph [0033] - paragraph [0035]; figure 1 -----	1-22
A	US 2007/201501 A1 (SUZUKI TAKAAKI [JP] ET AL) 30 August 2007 (2007-08-30) paragraph [0004] paragraph [0007] -----	1-22
X	US 2003/198204 A1 (TANEJA MUKESH [US] ET AL) 23 October 2003 (2003-10-23) paragraph [0240] - paragraph [0242] -----	23-29
X	EP 1 331 767 A (LUCENT TECHNOLOGIES INC [US]) 30 July 2003 (2003-07-30) paragraph [0060] - paragraph [0061] paragraph [0062] -----	30-43



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

*T¹ 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

9 March 2009

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Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No.
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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/ 10

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

1. claims: 1-22

Method and apparatus to place a second packet having a higher priority ahead in a queue of a first packet having a lower priority.

2. claims: 23-29

Method and apparatus for determining the amount of time a packet has awaited in a queue and placing the packet in a second queue according to the time spent in the first queue.

3. claims: 30-43

Method and apparatus to admit data flows into a cell according to the loading of the cell.

INTERNATIONAL SEARCH REPORT**Information on patent family members**International application No
PCT/US2008/076719

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 2005129044	A1 16-06-2005	NONE		
us 2007201501	A1 30-08-2007	CN 101098303 A JP 2007235294 A		02-01-2008 13-09-2007
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