(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(54) Title: METHOD FOR ALLOCATING RECEIVE BUFFERS TO ACCOMMODATE RETRANSMISSION SCHEME IN WIRELESS COMPUTER NETWORKS
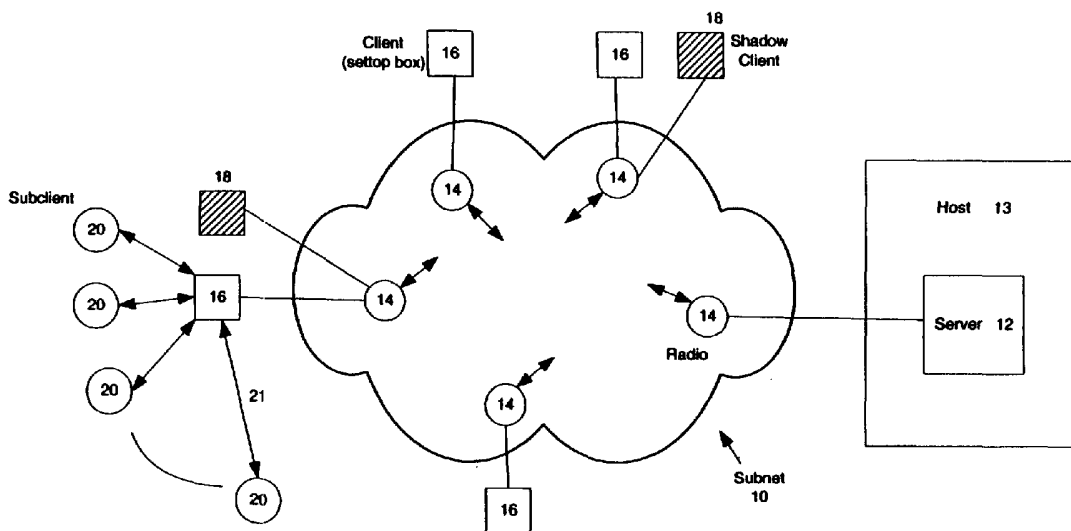
(57) Abstract: Data is transmitted over a communication channel in a computer network from a source network component to one or more destination network components. Thereafter, one or more acknowledgement are transmitted from one of the destination network components to the source network component; and different data, which may include retransmissions, from the previously transmitted data is transmitted from the source network component to the one or more destination network components. At one or more nodes of the computer network, buffers are allocated for the reception of packets made according to this scheme. Such allocation is dynamic in nature and varies according to the channel occupancy. That is, buffer space is allocated at the components of the network according to which traffic streams are currently utilizing the channel.

INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7   H04L12/56   H04L29/06

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)

IPC 7   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	WO 00 67433 A (MOTOROLA INC) 9 November 2000 (2000-11-09) page 1, line 19 - line 20 page 2, line 15 - line 34 page 3, line 32 - line 34 page 5, line 7 - line 28 page 7, line 19 - line 30 --- -/--	1-4,6,7

X	Further documents are listed in the continuation of box C.		X	Patent family members are listed in 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

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'&' document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
26 March 2003	03/04/2003

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Lamadie, S

INTERNATIONAL SEARCH REPORT

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category°	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
X	KUNG H T ET AL: "RECEIVER-ORIENTED ADAPTIVE BUFFER ALLOCATION IN CREDIT-BASED FLOW CONTROL FOR ATM NETWORKS" PROCEEDINGS OF INFOCOM '95 - CONFERENCE ON COMPUTER COMMUNICATIONS. FOURTEENTH ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES, BOSTON APR. 2 - 6, 1995, LOS ALAMITOS, IEEE COMP. SOC. PRESS, US, vol. 3 CONF. 14, 2 April 1995 (1995-04-02), pages 239-252, XP000580585 ISBN: 0-7803-2524-9 abstract page 241, column 1, paragraph 5 page 245, column 2, paragraph 7.1	1,2,5,7
X	TACHIKAWA T ET AL: "ARQ protocols for bi-directional data transmission" INFORMATION NETWORKING, 1998. (ICOIN-12). PROCEEDINGS., TWELFTH INTERNATIONAL CONFERENCE ON TOKYO, JAPAN 21-23 JAN. 1998, LOS ALAMITOS, CA, USA,IEEE COMPUT. SOC, US, 21 January 1998 (1998-01-21), pages 468-473, XP010265371 ISBN: 0-8186-7225-0 page 471, column 1, paragraph 3.2 page 471, column 1, paragraph 4.1 -page 472	1
X	KHAN F ET AL: "Link layer buffer size distributions for HTTPand FTP applications in an IS-2000 system" IEEE VTC 2000, XP010525510 page 955, column 2, paragraph 2 -page 956, column 1 page 959, column 2, paragraph 3.2.1	1-3,5,7
X	KATEVENIS M: "Buffer requirements of credit-based flow control when a minimum draining rate is guaranteed" HPCS'97 4TH IEEE WORKSHOP ARCH, IMPL, HIGH PERF, COMMUNICATION SUBSYSTEMS, XP010509195 page 2, column 2, paragraph 2 page 3, column 1, line 18 - line 30	1
A	US 5 638 371 A (RAYCHAUDHURI DIPANKAR ET AL) 10 June 1997 (1997-06-10) column 7, line 1 -column 9, line 63	2,4,7

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INTERNATIONAL SEARCH REPORT

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
A	PERRIN B ET AL: "Satellite full mesh ATM LAN:: interconnection, satellite access scheme, signaling and performance" BROADBAND COMMUNICATIONS. GLOBAL INFRASTRUCTURE FOR THE INFORMATION AGE. PROCEEDINGS OF THE INTERNATIONAL IFIP-IEEE CONFERENCE ON BROADBAND COMMUNICATIONS, CANADA, 1996, LONDON, CHAPMAN AND HALL, GB, 23 April 1996 (1996-04-23), pages 346-357, XP010525734 ISBN: 0-412-75970-5 page 351, paragraph 4.2 page 356, paragraph 7.1	2,4,7

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			AU	5468996 A	09-01-1997
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