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Published:

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- 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:  
6 March 2008

(54) Title: QUALITY OF SERVICE MANAGEMENT IN A SWITCHED DIGITAL VIDEO ENVIRONMENT

(57) Abstract: Quality of service management in a switched digital video environment. The devices in a user's home can be given quality of service priority statuses by a system operator. In the event of oversubscription, the quality of service management allows the user to determine which services will have priority over others if more bandwidth is requested than available.

VoIP  
Video  
Opportunistic STB  
PC

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**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/US2006/060700

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. H04L12/46 H04N7/16 H04N7/173

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 H04N

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

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/228277 A1 (WILLIAMS CHRISTOPHER PIERCE [US]) 18 November 2004 (2004-11-18) abstract paragraph [0030] - paragraph [0032] paragraphs [0065] - [0077] paragraph [0079] figure 1	1-10
X	US 2004/133907 A1 (RODRIGUEZ ARTURO A [US] ET AL) 8 July 2004 (2004-07-08) paragraph [0011] - paragraph [0012] paragraph [0067] - paragraph [0069]; figure 1	1-8
X	EP 0 714 192 A (IBM [US]) 29 May 1996 (1996-05-29) page 3, line 6 - page 4, line 58	1-8
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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.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

2 January 2008

Date of mailing of the international search report

16/01/2008

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## INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/060700

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 790 546 A (DOBBINS KURT [US] ET AL) 4 August 1998 (1998-08-04) column 1, line 13 - line 23 column 10, line 48 - line 57 column 23, line 6 - line 18; figure 8 -----	1-8
A	US 2002/199203 A1 (DUFFY JOHN [US] ET AL) 26 December 2002 (2002-12-26) the whole document -----	1-8
X	US 2002/019853 A1 (VANGE MARK [CA] ET AL) 14 February 2002 (2002-02-14) the whole document -----	9,10
X	US 2002/181454 A1 (NORMAN RICHARD S [CA] ET AL) 5 December 2002 (2002-12-05) paragraphs [0187] - [0228] - paragraphs [0153], [0154] -----	9,10

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2006/060700

## 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/ 210**

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

1. claims: 1-8

Method for providing a quality of service for a multicast group assigning a deaminated bandwidth to a subscriber depending on a priority status.  
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2. claims: 9-10

Method for assigning a priority status in a multicast group.  
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/060700

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004228277 A1	18-11-2004	CA 2467507 A1	16-11-2004
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