

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
13 March 2008 (13.03.2008)

PCT

(10) International Publication Number  
**WO 2008/028834 A3**

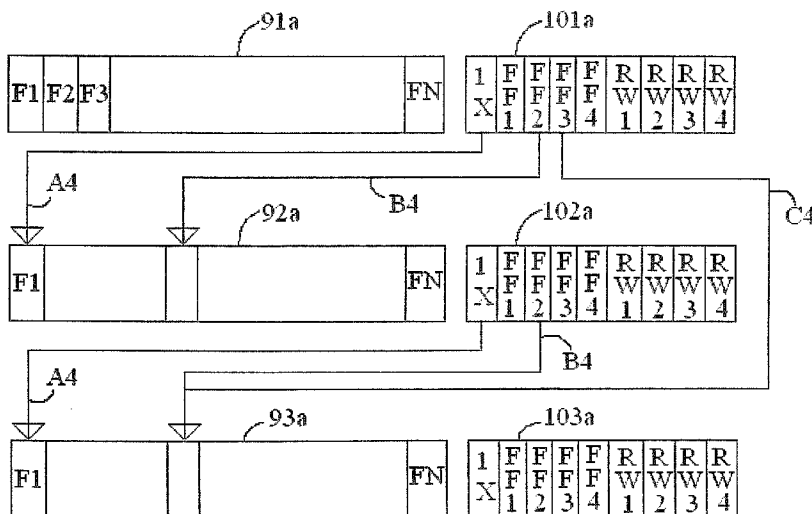
- (51) International Patent Classification:  
*G11B 27/30* (2006.01)    *H04N 7/24* (2006.01)
- (21) International Application Number:  
PCT/EP2007/058880
- (22) International Filing Date: 27 August 2007 (27.08.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/842,940    8 September 2006 (08.09.2006)    US  
0601865-9    8 September 2006 (08.09.2006)    SE  
0700313.0    9 January 2007 (09.01.2007)    GB
- (71) Applicant (for all designated States except US): **EDGEWARE AB** [SE/SE]; Drottninggatan 61, S-111 21 Stockholm (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **ROOS, Joachim** [SE/SE]; Kristinedalsvägen 32 B, S-131 46 Nacka (SE). **HENRIKSSON, Karl** [SE/SE]; Sekreterarbacken 60, S-128 38 Skarpnäck (SE). **HOLM, Lukas** [SE/SE]; Korphoppgatan 27, S-120 64 Stockholm (SE).
- (74) Agents: **HOLMBERG, Magnus** et al.; Groth & Co KB, Box 6107, S-102 32 Stockholm (SE).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**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: A METHOD AND AN APPARATUS FOR DATA STREAMING



(57) Abstract: An apparatus and a method for data streaming, as well as a combination, of an apparatus (1) for data streaming and a plurality of user devices, are presented. The apparatus is adapted to receive media data in the form of a plurality of payload data sets (9a, 9b) from at least one data source (8) and a plurality of streaming requests from a plurality of user devices (1 la, 1 Ib), the apparatus comprising a memory unit (7) adapted to store the payload data sets (9a, 9b), and a streaming unit (3) adapted to stream the payload data sets (9a, 9b) according to the streaming requests, the streaming unit (3) is adapted to receive a first sub-set (91a, 91b) of a payload data set (9a, 9b) from the memory unit. The streaming unit (3) is adapted to receive from the memory unit (7) a first sub-set (101a, 101b) of a control data set, which first control data sub-set (101a, 101b) comprises data corresponding to a location in the memory unit (7) of a second sub-set (92a, 92b) of the payload data set (9a, 9b).

WO 2008/028834 A3



---

(88) Date of publication of the international search report:  
17 April 2008

**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/EP2007/058880

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. G11B27/30 H04N7/24

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)  
H04N G11B

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

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GEMMELL D J ET AL: "MULTIMEDIA STORAGE SERVERS: A TUTORIAL" COMPUTER, IEEE SERVICE CENTER, LOS ALAMITOS, CA, US, vol. 28, no. 5, 1 May 1995 (1995-05-01), pages 40-49, XP000517832 ISSN: 0018-9162 abstract page 40, right-hand column, line 1 - page 42, left-hand column, paragraph 2 page 47, left-hand column, paragraph 4 - right-hand column, paragraph 3 ----- -/--	1-23

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

14 February 2008

Date of mailing of the international search report

22/02/2008

Name and mailing address of the ISA/

European Patent Office, P.B. 5816 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

KONTOPODIS, D

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP2007/058880

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 606 868 A (SONY CORP [JP]) 20 July 1994 (1994-07-20) abstract column 17, line 39 - line 55 column 23, line 23 - line 50 claim 10; figures 6,33,34	1-23
X	WO 94/07332 A (SONY CORP [JP]) 31 March 1994 (1994-03-31) abstract page 10, paragraph 3 - page 11, paragraph 3 page 20, line 8 - page 21, paragraph 3 page 30, line 1 - page 33, paragraph 1 page 39, line 1 - page 44, paragraph 1 page 47, line 5 - page 48, paragraph 4 figure 19	1-23
X	US 6 016 382 A (YAMAGISHI TORU [JP] ET AL) 18 January 2000 (2000-01-18) abstract column 18, line 1 - column 21, line 52	1-23
X	WO 99/29107 A (VSOFT LTD [IL]; LEV EITAN [IL]; COHEN NOAM [IL]; TEICHER MORDECHAI [IL]) 10 June 1999 (1999-06-10) abstract page 7, paragraph 2	1,2,6,7, 9-13,17, 18,20-23
X	WO 99/21362 A (ORACLE CORP [US]) 29 April 1999 (1999-04-29)  abstract page 9, line 13 - page 13, line 6 figures 1-2C	1,2,6, 9-13,17, 23
X	EP 0 698 982 A (IBM [US]) 28 February 1996 (1996-02-28) cited in the application abstract column 8, line 30 - column 9, line 10	1-3,6, 8-14,17, 19,23

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2007/058880

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0606868	A	20-07-1994	AU 673206 B2	31-10-1996
			AU 5307694 A	14-07-1994
			CN 1095540 A	23-11-1994
			JP 3240017 B2	17-12-2001
			JP 6261303 A	16-09-1994
			US 5602956 A	11-02-1997
WO 9407332	A	31-03-1994	AT 170354 T	15-09-1998
			AT 202252 T	15-06-2001
			AU 669563 B2	13-06-1996
			AU 4833393 A	12-04-1994
			DE 69320620 D1	01-10-1998
			DE 69320620 T2	14-01-1999
			DE 69330358 D1	19-07-2001
			DE 69330358 T2	28-02-2002
			EP 0622002 A1	02-11-1994
			US 6016382	A
WO 9929107	A	10-06-1999	AU 1350299 A	16-06-1999
			CN 1280741 A	17-01-2001
			EP 1044563 A2	18-10-2000
			JP 2001525636 T	11-12-2001
			US 6057832 A	02-05-2000
WO 9921362	A	29-04-1999	AU 755452 B2	12-12-2002
			AU 9807698 A	10-05-1999
			CA 2306932 A1	29-04-1999
			DE 69811385 D1	20-03-2003
			DE 69811385 T2	28-08-2003
			DE 69837726 T2	10-01-2008
			EP 1025699 A2	09-08-2000
			HK 1028860 A1	24-10-2003
			JP 2001521340 T	06-11-2001
			US 6578070 B1	10-06-2003
EP 0698982	A	28-02-1996	AT 235128 T	15-04-2003
			BR 9503452 A	28-05-1996
			CA 2149480 A1	24-02-1996
			CN 1118959 A	20-03-1996
			DE 69529948 D1	24-04-2003
			DE 69529948 T2	11-12-2003
			JP 3730686 B2	05-01-2006
			JP 8084143 A	26-03-1996
			US 5758085 A	26-05-1998