(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 2 October 2008 (02.10.2008)

(10) International Publication Number WO 2008/117232 A3

(51) International Patent Classification: *G11B 27/034* (2006.01) *G06F 17/30* (2006.01)

(2000)

(21) International Application Number:
PCT/IB2008/051096

(22) International Filing Date: 25 March 2008 (25.03.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 07105008.2 27 M

27 March 2007 (27.03.2007) EF

(71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

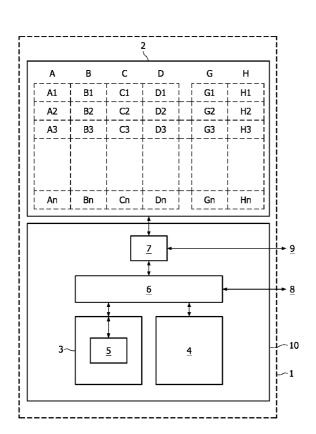
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): VIGNOLI, Fabio

[IT/NL]; c/o High Tech Campus, Building 44, NL-5656 AE Eindhoven (NL).

- (74) Agents: UITTENBOGAARD, Frank et al.; High Tech Campus, Building 44, NL-5656 AE Eindhoven (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, 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,

[Continued on next page]

(54) Title: APPARATUS FOR CREATING A MULTIMEDIA FILE LIST



dia files are provided with memories (2) for storing features of first and second multimedia files defined by first and second codes and with comparators (3) for comparing a characteristic of a third multimedia file with characteristics of the first and second multimedia files and with allocators (4) for, in response to first / second comparison results, allocating the first / second code to the third multimedia file. The list of multimedia files comprises multimedia files defined by same codes. Features may be identifications, titles, names. Multimedia files comprise audio, video, songs, movies. Codes may be classification codes. Characteristics may be tempos, rhythms, timbres, instrumentations, beat strengths. The comparators (3) may comprise calculators (5) for calculating distances between characteristics of the multimedia files. The first and second codes for the first and second multimedia files are generated in response to user actions or search engine actions.

(57) Abstract: Apparatuses (1) for creating lists of multime-



FIG. 1

WO 2008/117232 A3



FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

patent (Rule 4.17(ii))

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
- as to applicant's entitlement to apply for and be granted a (88) Date of publication of the international search report: 20 November 2008

International application No PCT/IB2008/051096

A. CLASSIFICATION OF SUBJECT MATTER INV. G11B27/034 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \text{Minimum documentation searched (classification system followed by classification symbols)} \\ \text{G11B} & \text{G06F} & \text{G06K} \end{array}$

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

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
	US 5 918 223 A (BLUM THOMAS L [US] ET AL) 29 June 1999 (1999-06-29) column 21, line 50 - column 22, line 27 column 2, line 50 - column 4, line 15 column 17, line 7 - column 19, line 35 column 20, line 45 - column 25, line 50	1-10	
	US 2005/092165 A1 (WEARE CHRISTOPHER B [US] ET AL) 5 May 2005 (2005-05-05) paragraphs [0028], [0047], [0048], [0065] - [0057]	1-10	
	-/		

X Further documents are listed in the continuation of Box C.	X See patent tamity annex.
* Special categories of cited documents: *A* document defining the general state of the lart 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' tater 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 mailing of the international search report
20 August 2008	10/09/2008
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tet. (+31-70) 340-2040, Tx. 31 651 epo nt, Fax: (+31-70) 340-3016	Authorized officer Bruma, Cezar

International application No PCT/IB2008/051096

0/0 "	N ->	PCT/1B2008/051096				
C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
X	WOLD E., BLUM T., KEISLAR D., WHEATON J.: "Content-Based Classification, Search, and Retrieval of Audio" IEEE MULTIMEDIA, [Online] vol. 3, no. 3, 1996, pages 27-36, XP002492745 Retrieved from the Internet: URL:www.musclefish.com> [retrieved on 2008-08-15] pages 3-6	1-10				
X	PAUWS S ET AL: "PATS: Realization and User Evaluation of an Automatic Playlist Generator" 13 October 2002 (2002-10-13), PROCEEDINGS ANNUAL INTERNATIONAL SYMPOSIUM ON MUSIC INFORMATIONRETRIEVAL, XX, XX, PAGE(S) 1 - 9, XP002325429 page 3	1-10				
X	WO 01/20483 A (CANTAMETRIX INC [US]; WELLS MAXWELL J [US]; WALLER DAVID [US]; DHILLON) 22 March 2001 (2001-03-22) page 1, line 25 - page 2, line 10 page 2, line 11 - page 4, line 11 page 4, lines 21-36 page 5, line 14 - page 10, line 5 page 13, line 6 - page 16, line 26	1-10				
X	WELSH M ET AL: "QUERYING LARGE COLLECTIONS OF MUSIC FOR SIMILARITY" 1 November 1999 (1999-11-01). UC BERKELEY TECHNICAL REPORT, XX, XX , XP008027813 the whole document	1-10				
X	EP 1 437 738 A (THOMSON LICENSING SA [FR]) 14 July 2004 (2004-07-14) paragraphs [0011], [0013], [0016] - [0023], [0027], [0029]; claims 1,16	1-10				
X	EP 1 073 272 A (SONY CORP [JP]) 31 January 2001 (2001-01-31) paragraphs [0029] - [0031], [0035], [0044], [0045], [0050] - [0054], [0080] - [0090], [0097]	1-10				
A	WO 2005/071569 A (KONINKL PHILIPS ELECTRONICS NV [NL]; PHILIPS CORP [US]; VIGNOLI FABIO) 4 August 2005 (2005-08-04) cited in the application page 3, lines 1-10,30-36 page 4, lines 5-20 page 4, lines 21-36	1-10				
	_/					

International application No PCT/IB2008/051096

		PCT/IB2008/051096
	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 750 269 A (DELPHI TECH INC [US]) 7 February 2007 (2007-02-07) paragraphs [0006], [0021], [0023], [0025], [0026]	1-10
A	JAIN A K ET AL: "Data clustering: a review" 1 September 1999 (1999-09-01), ACM COMPUTING SURVEYS, ACM, NEW YORK, NY, US, US, PAGE(S) 264 - 323, XP002165131 ISSN: 0360-0300 abstract	1-10

International application No PCT/IB2008/051096

Patent document cited in search report		Publication date		cation ate
US 5918223	Α	29-06-1999	NONE	
US 2005092165	A1	05-05-2005	NONE	
WO 0120483	A	22-03-2001	AU 7490000 A 17-0	04-2001 04-2001 03-2001
EP 1437738	Α .	14-07-2004	NONE	
EP 1073272	A	31-01-2001		08-2000 03-2004
WO 2005071569	Α	04-08-2005	EP 1709559 A1 11-1 JP 2007519115 T 12-0)2-2007 10-2006)7-2007 12-2006
EP 1750269	Α΄	07-02-2007	US 2007094215 A1 26-0)4-2007