

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 August 2007 (02.08.2007)

PCT

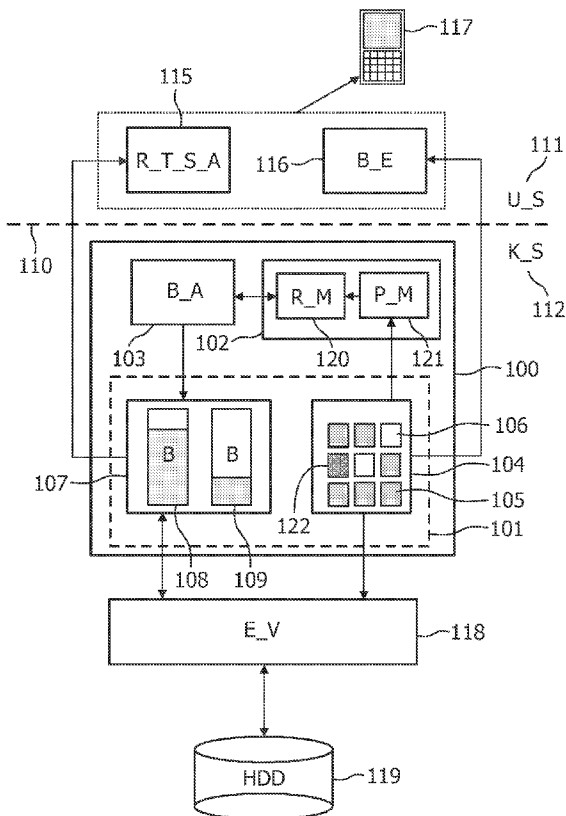
(10) International Publication Number
WO 2007/085978 A3

- (51) International Patent Classification:
G06F 12/08 (2006.01)
- (21) International Application Number:
PCT/IB2007/050115
- (22) International Filing Date: 15 January 2007 (15.01.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
06300071.5 26 January 2006 (26.01.2006) EP
- (71) Applicant (for all designated States except US): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MESUT, Ozcan [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). VAN GASSEL, Jozef, P. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). DE NIJS, Gilein [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven

- (NL). LUITJENS, Steven, B. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). YERMALAYEU, Siarhei [BY/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). BURCHARD, Artur [PL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (74) Agents: GROENENDAAL, Antonius, W., M. et al.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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, LV, LY, MA, MD, 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,

[Continued on next page]

(54) Title: A METHOD OF CONTROLLING A PAGE CACHE MEMORY IN REAL TIME STREAM AND BEST EFFORT APPLICATIONS



(57) Abstract: The present invention relates to controlling a page cache memory in devices which are implemented to run both best effort (BE) applications and simultaneously real time stream applications, where the controlling is based on adapting the buffer size dynamically to these applications. The aim of the present invention is therefore to maintain the power consumption associated with storage means, especially hard disk drive (HDD), for such real time stream and best effort applications optimally.

WO 2007/085978 A3



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, 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*

(88) Date of publication of the international search report:
18 October 2007

Declaration under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))*

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2007/050115

A. CLASSIFICATION OF SUBJECT MATTER INV. G06F12/08		
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) G06F		
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, IBM-TDB, COMPENDEX		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/074524 A1 (COULSON RICHARD L [US]) 17 April 2003 (2003-04-17) paragraph [0004] - paragraph [0007] paragraph [0014] - paragraph [0035] -----	1-8
A	US 6 122 708 A (FARABOSCHI PAOLO [US] ET AL) 19 September 2000 (2000-09-19) abstract column 1, line 11 - column 2, line 17 column 7, line 1 - column 8, line 28 -----	1-8
A	US 5 581 736 A (SMITH BRIAN J [US]) 3 December 1996 (1996-12-03) abstract -----	1-8
A	US 6 438 668 B1 (ESFAHANI CAMERON J [US] ET AL) 20 August 2002 (2002-08-20) abstract -----	1-8
<input type="checkbox"/> Further documents are listed in the continuation of Box C.		
<input checked="" type="checkbox"/> 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	*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	
E earlier document but published on or after the international filing date	*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	
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)	*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.	
O document referring to an oral disclosure, use, exhibition or other means	*&* document member of the same patent family	
P document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search <div style="text-align: center; font-weight: bold;">5 July 2007</div>	Date of mailing of the international search report <div style="text-align: center; font-weight: bold;">26/07/2007</div>	
Name and mailing address of the ISA/ 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	Authorized officer <div style="text-align: center; font-weight: bold;">Marcu, Antoniu</div>	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/IB2007/050115
--

Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
US 2003074524	A1	17-04-2003	CN 1568461 A EP 1436704 A1 WO 03034230 A1	19-01-2005 14-07-2004 24-04-2003
US 6122708	A	19-09-2000	NONE	
US 5581736	A	03-12-1996	NONE	
US 6438668	B1	20-08-2002	NONE	