

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 December 2003 (04.12.2003)

PCT

(10) International Publication Number
WO 2003/100599 A3

(51) International Patent Classification⁷: **G06F 9/30**,
9/38, 15/78

[NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(21) International Application Number:
PCT/IB2003/001891

(74) Agent: **DE JONG, Durk, J.**; Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(22) International Filing Date: 7 May 2003 (07.05.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02077034.3 24 May 2002 (24.05.2002) EP
02078618.2 4 September 2002 (04.09.2002) EP

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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

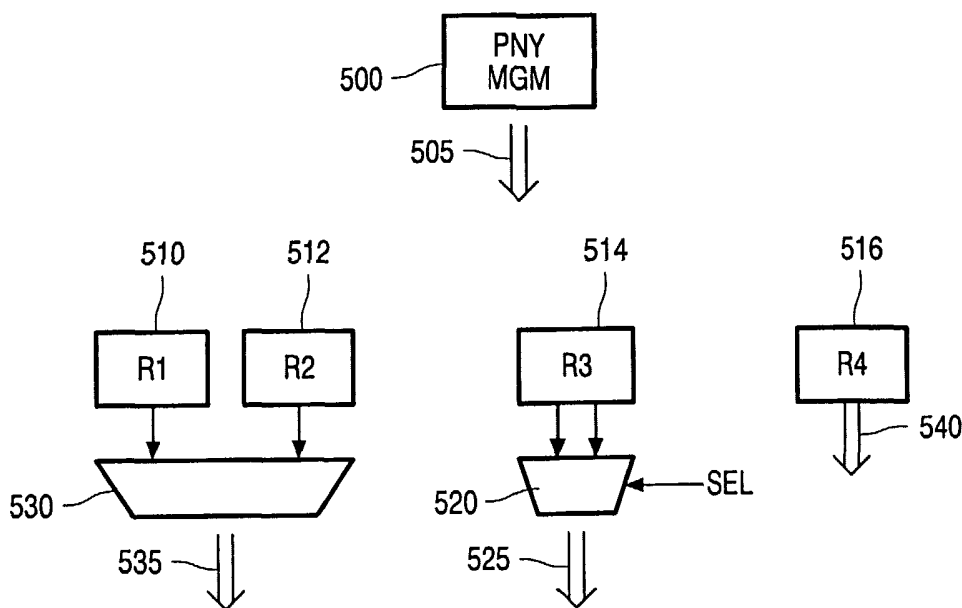
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **VAN BERKEL, Cornelis, H.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **MEUWISSEN, Patrick, P., E.**

Published:
— with international search report

[Continued on next page]

(54) Title: ACCESS TO A WIDE MEMORY



(57) Abstract: A processing system includes a processor and a physical memory (500) with a single-size memory port (505) for accessing data in the memory. The processor is arranged to operate on data of at least a first data size and a smaller second data size. The first data size is equal to or smaller than the size of memory port. The processing system including at least one data register (514) of the first data size connected to the memory port (505), and at least one data port (525) of the second data size connected to the data register (525) and the processor for enabling access to data elements of the second size.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

22 July 2004

INTERNATIONAL SEARCH REPORT

International Application No
P/B 03/01891

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F9/30 G06F9/38 G06F15/78

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 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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 949 247 A (STEPHENSON R ASHLEY ET AL) 14 August 1990 (1990-08-14)	1-5, 12-15
Y	column 1, line 31 - column 2, line 3 column 3, line 27 - line 40 column 3, line 57 - line 58	6-11
X	US 5 689 653 A (KARP ET AL.) 18 November 1997 (1997-11-18)	1
Y	column 2, line 56 - line 57 column 4, line 6 - line 60 column 8, line 8 - line 42	6-11
X	US 5 928 350 A (SHU DAVID B ET AL) 27 July 1999 (1999-07-27)	1-5, 12-15
	column 6, line 1 - line 59 column 3, line 45 - column 4, line 5	
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ 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

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

14 May 2004

Date of mailing of the international search report

01/06/2004

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

Klocke, L

INTERNATIONAL SEARCH REPORT

Int. Patent Application No.
P B 03/01891

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 426 754 A (GRICE ET AL) 20 June 1995 (1995-06-20) column 5, line 5 - line 16 -----	6-9
A	US 6 006 315 A (PARK HEONCHUL) 21 December 1999 (1999-12-21) column 2, line 4 - line 22 -----	11

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP 03/01891

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4949247	A	14-08-1990	NONE	
US 5689653	A	18-11-1997	DE 19545179 A1 GB 2297638 A JP 8272779 A	08-08-1996 07-08-1996 18-10-1996
US 5928350	A	27-07-1999	NONE	
US 5426754	A	20-06-1995	JP 2618178 B2 JP 6035953 A	11-06-1997 10-02-1994
US 6006315	A	21-12-1999	JP 10187661 A KR 227277 B1	21-07-1998 01-11-1999