

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 August 2007 (30.08.2007)

PCT

(10) International Publication Number
WO 2007/098024 A3

(51) International Patent Classification:
G06F 15/00 (2006.01)

(21) International Application Number:

PCT/US2007/004081

(22) International Filing Date:

16 February 2007 (16.02.2007)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

11/355,495	16 February 2006 (16.02.2006)	US
11/355,513	16 February 2006 (16.02.2006)	US
60/788,265	31 March 2006 (31.03.2006)	US
11/441,784	26 May 2006 (26.05.2006)	US
11/441,812	26 May 2006 (26.05.2006)	US
11/441,818	26 May 2006 (26.05.2006)	US

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(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.

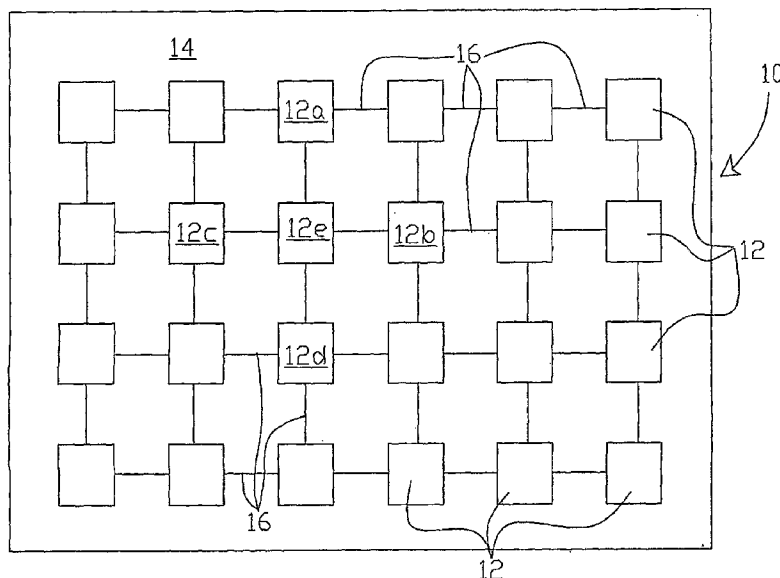
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, 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

[Continued on next page]

(54) Title: ALLOCATION OF RESOURCES AMONG AN ARRAY OF COMPUTERS



(57) Abstract: A computer array (10) has a plurality of computers (12). The computers (12) communicate directly with neighbor computers and indirectly with other computers in the array. The computers pass data words that include data and/or instructions. As many as 4 instructions can be included in one 18 bit data word. Since four instructions are communicated at a time it is possible to communicate an entire micro-loop made up of as many as four instructions. The computers of the present invention can execute instruction directly from their input registers.

WO 2007/098024 A3



— *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:**
31 December 2008

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/04081

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 15/00 (2008.04)

USPC - 712/16

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)
USPC: 712/16Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 712/1, 10, 16, 17, 21, 200, 233; 700/1, 2, 7 - keyword limited; see search terms below.

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST (PGPB, USPT, USOC, EPAB, JPAB); GOOGLE

Search Terms: multi, processors, array, multiple, word, instructions, orthogonal, mini, program, single, chip, loop, input, register, integrated, memory etc.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0030859 A1 (Doerr et al.) 12 February 2004 (12.02.2004), entire document, especially abstract, figure 1, para [0036], [0039], [0040], [0075], [0108], [0116], [0121], [0204].	1-13
A	US 5,673,423 A (Hillis) 30 September 1997 (30.09.1997), entire document.	1-13

☐ Further documents are listed in the continuation of Box C.

* 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 application or patent but published on or after the international
filing date"L" document which may throw doubts on priority claim(s) or which is
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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

20 October 2008 (20.10.2008)

Date of mailing of the international search report

05 NOV 2008

Name and mailing address of the ISA/US

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P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

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