

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/074434 A3

(51) International Patent Classification:
G06F 11/30 (2006.01) H04K 1/00 (2006.01)
H04L 9/00 (2006.01)

(21) International Application Number:
PCT/US2004/033955

(22) International Filing Date: 13 October 2004 (13.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/760,131 15 January 2004 (15.01.2004) US

(71) Applicant (for all designated States except US): SELF
REPAIRING COMPUTERS, INC. [US/US]; P.O. Box
16037, San Francisco, CA 94116 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LARGMAN, Ken-
neth [US/US]; 2301 34th. Avenue, San Francisco, CA
94116 (US). MORE, Anthony B. [US/US]; 7223 Maple
Avenue, Sebastopol, CA 95472 (US). BLAIR, Jeffrey
[US/US]; 6 El Sereno Court, San Francisco, CA 94127
(US).

(74) Agents: ANANIAN, R., Michael et al.; 4 Embarcadero
Center, Suite 3400, San Francisco, CA 94111 (US).

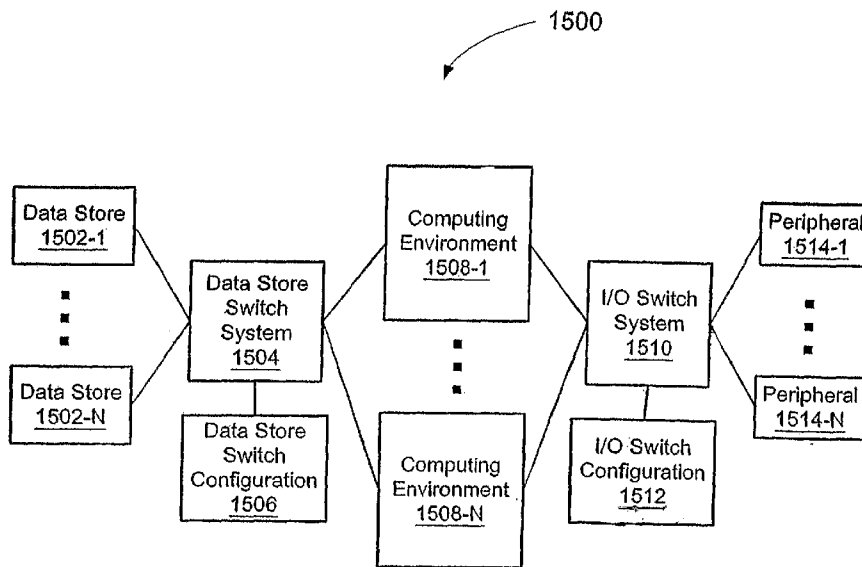
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, IT, LU, 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: COMPUTER SYSTEM ARCHITECTURE AND METHOD PROVIDING OPERATING-SYSTEM INDEPENDENT
VIRUS-, HACKER-, AND CYBER-TERROR-IMMUNE PROCESSING ENVIRONMENTS



(57) Abstract: Information appliance, computing device, or other processor or microprocessor based device or system (1508-N) provides security and anti-viral, anti-hacker, and anti-cyber terror features, and can automatically create multiple sequentially or concurrently and intermittently isolated and/or restricted computing environments to prevent viruses, malicious or other computer hacking, computer or device corruption and failure by using these computing environments in conjunction with restricted and controlled methods of moving and copying data, combined with a process that destroys malicious code located in computing environments (1508-N) and data stores.

WO 2005/074434 A3



— *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:
30 August 2007

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/33955

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G06F 11/30(2006.01);H04L 9/00(2006.01);H04K 1/00(2006.01)

USPC: 726/1,2,16,17,22,24,26,27

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)
U.S. : 726/1,2,16,17,22,24,26,27

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 practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,974,549 A (GOLAN) 26 October 1999, see entire document	1-26

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	"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
"B" earlier application or patent 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	"Z" 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

21 January 2007 (21.01.2007)

Date of mailing of the international search report

21 JUN 2007

Name and mailing address of the ISA/US

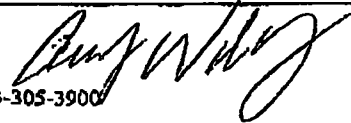
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Ayaz Sheikh

Telephone No. 703-305-3900



INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/33955

Continuation of B. FIELDS SEARCHED Item 3:

BRS (files: USPAT, US PG PUB, USOCR, FPRS, DERWENT, IBM TDB, EPO, JPO)

search terms: unknown, untrusted, suspicious, malicious, code, content, data, application, program, module, isolate, separate, quarantine, storage, memory, medium, copy, duplicate, mirror, archive