

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 September 2001 (07.09.2001)

PCT

(10) International Publication Number
WO 01/065368 A3

(51) International Patent Classification⁷: **G06F 9/46**, 9/445

(21) International Application Number: PCT/US01/06592

(22) International Filing Date: 1 March 2001 (01.03.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/185,995 1 March 2000 (01.03.2000) US

(71) Applicant and

(72) Inventor: **TASHENBERG, Bradley, A.** [US/US]; Apt.
4308, 3805 W. Alabama, Houston, TX 77027 (US).

(74) Agent: **STROZIER, Robert, W.**; Suite 930, 2925 Bri-
arpark Drive, Houston, TX 77042 (US).

(81) Designated States (*national*): AL, AM, AT, AU, AZ, BA,
BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES,

FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP,
KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW.

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

Published:

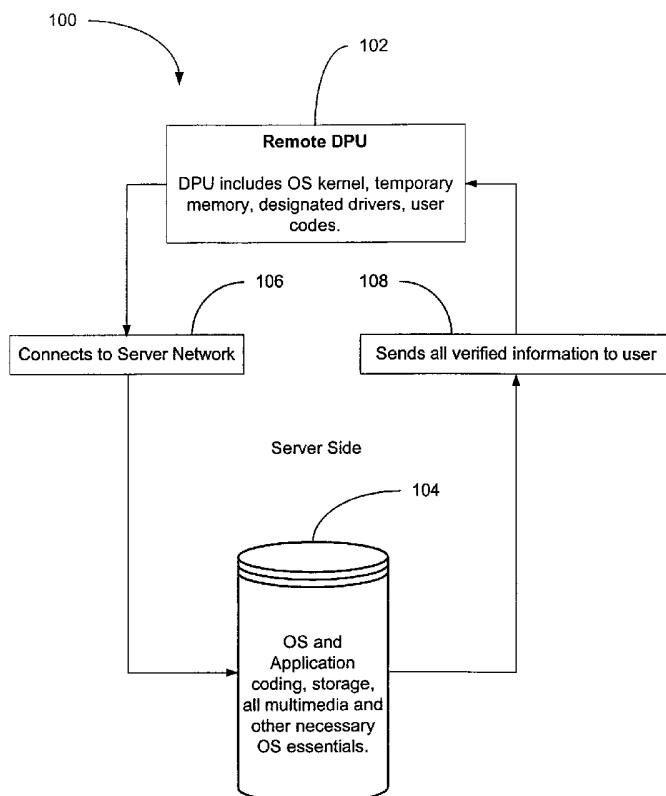
— with international search report

(88) Date of publication of the international search report:
23 January 2003

*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.*

(54) Title: A DISTRIBUTED OPERATING NETWORK AND METHOD FOR USING AND IMPLEMENTING SAME

Basic Structure



(57) Abstract: A distributed operating network is disclosed where an operating kernel is commonly installed on all DPUs in the operating network interconnected with at least one interconnecting network where the computer includes remote user DPUs and servers where the servers comprise a server system. The server system includes an application repository, user registration, identification and verification routines, accounting and billing routines, user activity tracking routines and timekeeping routines. Each DPU has access to all application software on the operating network which can be used on a time of use based billing system and the kernel is expanded with selected applications and needed dynamic routines for optimal performance on the requesting DPU which allows the DPU to be minimally configured. Additional hardware is available to all remote DPUs on a time use base billing system as well as distributed computing and resource sharing.



WO 01/065368 A3

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/06592

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F9/46 G06F9/445

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, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HERRTWICH R G ET AL: "Network computers - ubiquitous computing or dumb multimedia?" AUTONOMOUS DECENTRALIZED SYSTEMS, 1997. PROCEEDINGS. ISADS 97., THIRD INTERNATIONAL SYMPOSIUM ON BERLIN, GERMANY 9-11 APRIL 1997, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 9 April 1997 (1997-04-09), pages 155-159, XP010224244 ISBN: 0-8186-7783-X	1,2,6,7, 9,10, 12-15, 19,20, 22,23
Y	page 155, right-hand column, line 18 -page 156, right-hand column, line 12; figure 1 page 157, left-hand column, line 9 - line 22 page 157, right-hand column, last line -page 158, left-hand column, line 32 -/--	3-5,8, 11, 16-18,21

☒ 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.
- *Z* document member of the same patent family

Date of the actual completion of the international search

15 October 2002

Date of mailing of the international search report

31/10/2002

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

Carciofi, A

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/06592

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>page 158, right-hand column, line 41 -page 159, right-hand column, line 12</p> <p>---</p> <p>BRADLEY G H: "Dynamic and interactive electronic research publications using Java"</p> <p>OPERATIONS RESEARCH DEPARTMENT - NAVAL POSTGRADUATE SCHOOL, 'Online! 22 February 1996 (1996-02-22), pages 1-4, XP002216751</p> <p>Monterey, CA, USA</p> <p>Retrieved from the Internet: <URL:http://rigel.nps.navy.mil/[gbradley/JavaPaper/JavaPaperFeb96/0-abstractTOC.html> 'retrieved on 2002-10-14!</p> <p>An excerpt containing: abstract, table of contents, paragraph 12</p> <p>page 4, line 5 - line 21</p> <p>---</p>	<p>1,6,10, 12-14, 19,23</p>
Y	<p>"THE NETWORK COMPUTER - INTELLIGENT CLIENTS FOR THE AGE OF NETWORK COMPUTING" DATABASE AND NETWORK JOURNAL, A.P. PUBLICATIONS, LONDON, GB, vol. 26, no. 3, 1 June 1996 (1996-06-01), pages 3-5, XP000670677</p> <p>ISSN: 0265-4490</p> <p>page 3, right-hand column, line 10 - line 30</p> <p>page 4, left-hand column, line 40 -middle column, line 52</p> <p>---</p>	<p>4,8,17, 21</p>
Y	<p>WO 98 07085 A (SMITH BENJAMIN HEWITT ;SMITH FRED HEWITT (US); BEN SMITH INC (US)) 19 February 1998 (1998-02-19)</p> <p>page 4, line 2 -page 5, line 14</p> <p>---</p>	<p>3,11,16</p>
Y	<p>EP 0 957 617 A (SUN MICROSYSTEMS INC) 17 November 1999 (1999-11-17)</p> <p>paragraph '0038!</p> <p>---</p>	<p>5,18</p>
A	<p>WO 98 37486 A (EIRICH THOMAS ;IBM (US)) 27 August 1998 (1998-08-27)</p> <p>page 4, line 12 - last line</p> <p>page 6, line 22 - last line</p> <p>page 8, line 19 -page 9, line 15</p> <p>-----</p>	<p>5,7,18, 20</p>

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/06592

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9807085	A	19-02-1998	US	6067582 A	23-05-2000
			AU	3793997 A	06-03-1998
			EP	0978023 A1	09-02-2000
			WO	9807085 A1	19-02-1998
EP 0957617	A	17-11-1999	US	6052720 A	18-04-2000
			US	6161125 A	12-12-2000
			EP	0957617 A2	17-11-1999
			JP	2000122984 A	28-04-2000
WO 9837486	A	27-08-1998	WO	9837486 A1	27-08-1998
			TW	393625 B	11-06-2000