### (19) World Intellectual Property Organization

International Bureau



## 

#### (43) International Publication Date 2 September 2004 (02.09.2004)

## (10) International Publication Number WO 2004/074984 A3

(51) International Patent Classification':

G06F 13/00

(21) International Application Number:

PCT/US2004/003017

(22) International Filing Date: 3 February 2004 (03.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

10/367,617 14 February 2003 (14.02.2003) US 10/731,872 9 December 2003 (09.12.2003) US

(71) Applicant (for all designated States except US): CON-VOQ, INC. [US/US]; 55 Hayden Avenue, Lexington, MA 02421 (US).

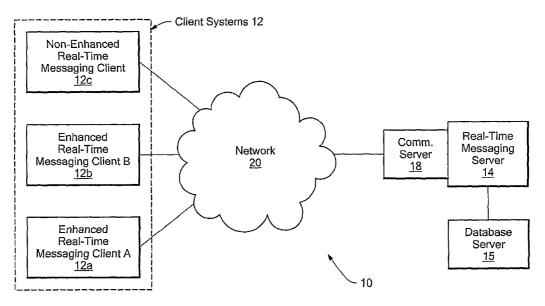
(72) Inventors; and

(75) Inventors/Applicants (for US only): DIGATE, Charles, J. [US/US]; 14 Oxford Street, Winchester, MA 01890 (US). HEROT, Christopher, F. [US/US]; 246 Plymouth Road, Newton Highlands, MA 02461 (US). KETUDAT, Tonytip [US/US]; 26 Downing Road, Lexington, MA 02421 (US). KOPIKIS, Alexis, M. [US/US]; 2000 Commonwealth Avenue, Apt. #501, Brighton, MA 02135 (US).

- (74) Agents: LEBOVICI, Victor, B. et al.; Weingarten, Schurgin, Gagnebin & Lebovici, LLP, Ten P.O. Square, Boston, MA 02109 (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, 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,

[Continued on next page]

(54) Title: RULES BASED REAL-TIME COMMUNICATION SYSTEM



(57) Abstract: A rules-based real-time messaging system for groups of users, in which an availability status is maintained in association with each user. Clients are communicably coupled to a real-time messaging server, which maintains indications of the online/offline presence of each user, as well as other user attributes. Rules and a rules engine are maintained in the real-time messaging server for controlling the delivery of messages to the users, and for controlling how the availability of users is provided to other users. Based on the specific rules stored on the real-time messaging server, the rules engine determines the state of various relevant conditions such as the availability of users of the system, and detects the occurrence of various real-time events such as a user logging-on to or logging-off from the system for controlling the delivery of various types of messages and/or the performance of resulting actions.

## WO 2004/074984 A3



GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### **Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

#### Published:

with international search report

 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: 21 September 2006

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.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/03017

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : G06F 13/00					
US CL: 709/204, 205, 207, 219 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. : 709/204, 205, 207, 219					
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)					
	JMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where ap	propriete of the relevant passages	Relevant to claim No.		
Category *	US 6,678,719 (Stimmel) 13 January 2004, clumn 3 li		1-9, 11-14, 30		
^	line 5.	messo-52, column 4 mic oo to column 5	1-2, 11-14, 30		
Y	US: 6,772,229 (Achacoso et al) 03 August 2004, colu	10			
Y	US 6,772,229 (Achacoso et al) 03 August 204, column 12 line 20 to column 14 line 36.		15-17		
Y	US: 6,047,053 (Miner et al) 04 April 2000, column 5 line 40-67		18-25		
Y	US: 5,742,905 (Pepe et al) 21 April 1998, column 6	26-29			
Further documents are listed in the continuation of Box C. See patent family annex.					
•	pecial categories of cited documents:	"T" later document published after the inte- date and not in conflict with the applica-	ation but cited to understand the		
	defining the general state of the art which is not considered to be of relevance	principle or theory underlying the inver  "X" document of particular relevance; the o			
	plication or patent published on or after the international filing date	considered novel or cannot be consider when the document is taken alone			
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step	when the document is combined		
"O" document	referring to an oral disclosure, use, exhibition or other means	with one or more other such documents obvious to a person skilled in the art	, such combination being		
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent for	unily 		
Date of the actual completion of the international search		Date of mailing of the international search report  0 9 AUG 2006			
	05 (19.08.2005)	Authorized officer	000		
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US		Audiorized officer			
Commissioner for Patents		Authorized officer Fan Tsan Line			
	. Box 1450 xandria, Virginia 22313-1450	Telephone No. N/A			
Facsimile No. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/03017

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : G06F 13/00 US CL : 709/204, 205, 207, 219					
	International Patent Classification (IPC) or to both nat	ional classification and IPC			
	OS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 709/204, 205, 207, 219					
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)					
C. DOCI	JMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.		
Х	US 6,678,719 (Stimmel) 13 January 2004, clumn 3 li line 5.	ines50-52, column 4 line 66 to column 5	1-9, 11-14, 30		
Y	US: 6,772,229 (Achacoso et al) 03 August 2004, column 15 line 21-23		10		
Y	US 6,772,229 (Achacoso et al) 03 August 204, column 12 line 20 to column 14 line 36.		15-17		
Y	US: 6,047,053 (Miner et al) 04 April 2000, column 5 line 40-67		18-25		
Y	US: 5,742,905 (Pepe et al) 21 April 1998, column 6 line 52 to column 8 line 19.		26-29		
Further documents are listed in the continuation of Box C. See patent family annex.					
Special categories of cited documents:  "T" later document published after the integrate and not in conflict with the applic principle or theory underlying the inverse particular relevance		ation but cited to understand the ntion			
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider 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			
	referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art  "&" document member of the same patent f	amily		
priority d	ate claimed				
Date of the actual completion of the international search		Date of mailing of the international search report  09 AUG 2006  Authorized officer Fan Tsan			
19 August 2005 (19.08.2005)  Name and mailing address of the ISA/US		Authorized officer			
	il Stop PCT, Attn: ISA/US	, <u></u>			
Commissioner for Patents P.O. Box 1450		Fan Tsan (mon)			
	. Box 1450 xandria, Virginia 223 13-1450	Telephone No. N/A			
Facsimile No. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (January 2004)