

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 September 2007 (27.09.2007)

PCT

(10) International Publication Number
WO 2007/109557 A3

(51) International Patent Classification:

G06F 15/16 (2006.01) **H04L 12/28** (2006.01)
H04L 12/56 (2006.01)

(21) International Application Number:

PCT/US2007/064199

(22) International Filing Date: 16 March 2007 (16.03.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/782,599	16 March 2006 (16.03.2006)	US
60/782,734	16 March 2006 (16.03.2006)	US
60/782,598	16 March 2006 (16.03.2006)	US
60/782,600	16 March 2006 (16.03.2006)	US
60/782,634	16 March 2006 (16.03.2006)	US
60/782,635	16 March 2006 (16.03.2006)	US
60/782,596	16 March 2006 (16.03.2006)	US
60/782,595	16 March 2006 (16.03.2006)	US
11/686,896	15 March 2007 (15.03.2007)	US

(71) Applicant (for all designated States except US): **EXCEPTIONAL INNOVATION, LLC** [US/US]; 480 Olde Worthington Road, Suite 350, Westerville, OH 43082 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MOORER, Seale**

[US/US]; 480 Olde Worthington Road, Suite 350, Westerville, OH 43082 (US). **EICHENSEHR, Eric** [US/US]; 480 Olde Worthington Road, Suite 350, Westerville, OH 43082 (US).

(74) Agents: **HILTEN, John, S.** et al.; McGuirewoods, LLP, 1750 Tysons Boulevard, Suite 1800, McLean, VA 22102-4215 (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, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, 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, MT, 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).

[Continued on next page]

(54) Title: AUTOMATION CONTROL SYSTEM HAVING A CONFIGURATION TOOL AND TWO-WAY COMMUNICATION WITH A TOUCH-SCREEN DISPLAY

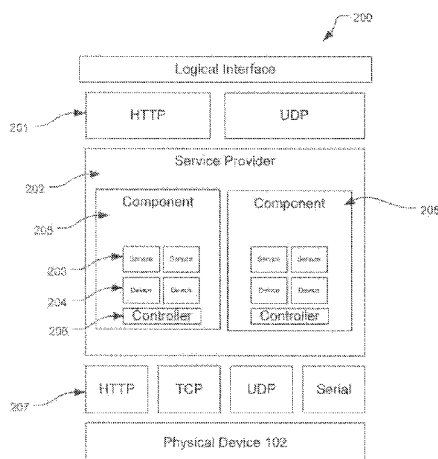


FIGURE 2

(57) Abstract: An automation system and process of operating an automation system in a Web Service environment, includes providing at least one client (104) and at least one device (102), the at least one client and the at least one device configured with a web services for devices stack protocol (207), connecting a network (12) includes at least one server (10) with the web services for devices to the at least one client and the at least one device, and transmitting automation-based control and communication between the at least one client and at least one device, wherein the at least one client comprises one of a touch screen display and a handheld controller and the at least one device comprises an audio system, a video system, an intercom system, a lighting system, a security system, a link, and a HVAC system.

WO 2007/109557 A3



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:

2 October 2008

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/64199

A. CLASSIFICATION OF SUBJECT MATTER IPC: G06F 15/16(2006.01);H04L 12/56(2006.01),12/28(2006.01) USPC: 709/227,217,230;370/401 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. : 709/227, 217, 230; 370/401 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. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 2004/0267876 A1 (KAIVAYA et al) 30 December 2004 (30.12.2004), Abstract; paragraphs 33-36, 44-46, 65-83, 88, 220-221.</td> <td>1-5, 7-15, 17-26 and 28-33</td> </tr> <tr> <td>Y</td> <td>US 2005/0198304 A1 (OLIVER et al) 08 Septemeber 2005 (08.09.2005), Abstract; paragraphs 10-11</td> <td>6, 16 and 27</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 2004/0267876 A1 (KAIVAYA et al) 30 December 2004 (30.12.2004), Abstract; paragraphs 33-36, 44-46, 65-83, 88, 220-221.	1-5, 7-15, 17-26 and 28-33	Y	US 2005/0198304 A1 (OLIVER et al) 08 Septemeber 2005 (08.09.2005), Abstract; paragraphs 10-11	6, 16 and 27									
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.																		
X	US 2004/0267876 A1 (KAIVAYA et al) 30 December 2004 (30.12.2004), Abstract; paragraphs 33-36, 44-46, 65-83, 88, 220-221.	1-5, 7-15, 17-26 and 28-33																		
Y	US 2005/0198304 A1 (OLIVER et al) 08 Septemeber 2005 (08.09.2005), Abstract; paragraphs 10-11	6, 16 and 27																		
☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.																				
<table border="0"> <tr> <td colspan="2"> * Special categories of cited documents: </td> <td> "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 </td> </tr> <tr> <td> "A" document defining the general state of the art which is not considered to be of particular relevance </td> <td> "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 </td> <td></td> </tr> <tr> <td> "E" earlier application or patent published on or after the international filing date </td> <td> "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 </td> <td></td> </tr> <tr> <td> "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) </td> <td> "&" document member of the same patent family </td> <td></td> </tr> <tr> <td> "O" document referring to an oral disclosure, use, exhibition or other means </td> <td></td> <td></td> </tr> <tr> <td> "P" document published prior to the international filing date but later than the priority date claimed </td> <td></td> <td></td> </tr> </table>			* Special categories of cited documents:		"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	"A" document defining the general state of the art which is not considered to be of particular relevance	"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		"E" earlier application or patent published on or after the international filing date	"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		"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)	"&" document member of the same patent family		"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		
* Special categories of cited documents:		"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																		
"A" document defining the general state of the art which is not considered to be of particular relevance	"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																			
"E" earlier application or patent published on or after the international filing date	"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																			
"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)	"&" document member of the same patent family																			
"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																				
Date of the actual completion of the international search 13 July 2008 (13.07.2008)		Date of mailing of the international search report 25 JUL 2008																		
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 Nathan Flynn Telephone No. 571-272-2100 																		