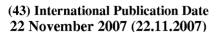
(19) World Intellectual Property Organization

International Bureau







(10) International Publication Number WO 2007/134102 A3

(51) International Patent Classification: *H04M 3/00* (2006.01) *G06F 1/00* (2006.01)

(21) International Application Number:

PCT/US2007/068557

(22) International Filing Date: 9 May 2007 (09.05.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

11/430,382 9 May 2006 (09.05.2006) U

(71) Applicant (for all designated States except US): TOYOTA ENGINEERING & MANUFACTURING NORTH AMERICA, INC. [US/US]; 1555 Woodridge Ave., Ann Arbor, MI 48105 (US).

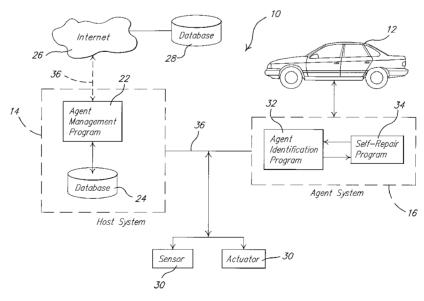
(72) Inventor; and

(75) Inventor/Applicant (for US only): CHIGUSA, Shunsuke [JP/US]; 420 Massachusetts Avenue, Apt. #6, Arlington, MA 02474 (US).

- (74) Agents: ANDERSON, Thomas, E. et al.; Gifford, Krass, Sprinkle, Anderson And, Citkowski, P.C., 2701 Troy Center Drive, Suite 330, P.O. Box 7021, Troy, MI 48007-7021 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, 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: SYSTEM AND METHOD OF AGENT SELF-REPAIR WITHIN AN INTELLIGENT AGENT SYSTEM



(57) Abstract: A system and method of intelligent agent self -repair for an intelligent agent system in a vehicle is provided that includes a host system in communication with an intelligent agent via a communications network. An executable software program verifies if the agent work procedure list matches a corresponding work procedure list for the agent that is stored in the memory of the host system. Execution of the agent work procedure list by the agent is ceased and the agent is repaired by transmitting a new work procedure list to the agent from the host information database, if the agent work procedure list is not verified. The agent continues to execute the work instructions if the agent work procedure list is verified or the agent is repaired.



Published:

(88) Date of publication of the international search report:

2 May

— with international search report

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 07/68557

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - H04M 3/00, G06F 1/00 (2007.10) USPC - 379/265.06; 719/317; 379/221.08, 379/265.06			
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED			
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC(8) - H04M 3/00, G06F 1/00 (2007.10) USPC - 379/265.06; 719/317; 379/221.08, 379/265.06			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched IPC(8) - H04M 3/00, G06F 1/00 (2007.10) USPC - 379/265.06; 719/317; 379/221.08, 379/265.06			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST (USPT, PGPB, EPAB, JPAB); DIALOG PRO (Engineering) & Google; intelligent agent self-repair, intelligent agent system, vehicle, encrypted work procedure list, intelligent agent, processor, memory, agent work procedure list, work procedure list, host system, input/output means, host information database, work			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
х	US 2002/0120696 A1 (Mousseau et al.) 29 August 200 especially Title, Abstract, Para [0005], [0013], [0017], [0144], [0146], [0164]-[0165], [0167] and [0170]		1-7
A	US 2005/0004974 A1 (Sharma et al.) 06 January 2005	(06.01.2005), entire document	1-7
,			
Furthe	or documents are listed in the continuation of Box C.		
* Special categories of cited documents: "T" later document published after the international filing date or priority			
to be of	to be of particular relevance the principle or theory underlying the invention		
filing date considered novel or cannot be considered "L" document which may throw doubts on priority claim(s) or which is step when the document is taken alone		ered to involve an inventive	
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 "O" document referring to an oral disclosure, use, exhibition or other means		step when the document is documents, such combination	
"P" docume	· · · · · · · · · · · · · · · · · · ·		
Date of the actual completion of the international search Date of mailing of the international search			
23 October 2007 (23.10.2007)		07 FEB 2008	
Name and mailing address of the ISA/US		Authorized officer:	
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450		Lee W. Young PCT Helpdesk: 571-272-4300	Dat
Facsimile No. 571-273-3201 PCT OSP: 571-272-7774			