

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 July 2006 (06.07.2006)

PCT

(10) International Publication Number
WO 2006/072104 A3

(51) International Patent Classification:
H04L 29/08 (2006.01)

(21) International Application Number:

PCT/US2005/047686

(22) International Filing Date:

29 December 2005 (29.12.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

11/024,893 29 December 2004 (29.12.2004) US

(71) Applicant (for all designated States except US): **INTEL CORPORATION** [US/US]; 2200 Mission College Boulevard, Santa Clara, California 95052 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ALDRIDGE, Tomm** [US/US]; 1810 Cameo Court NW, Olympia, Washington 98502 (US). **GELSINGER, Patrick** [US/US]; 20050 SW Nancy Lane, Beaverton, Oregon 97007 (US).

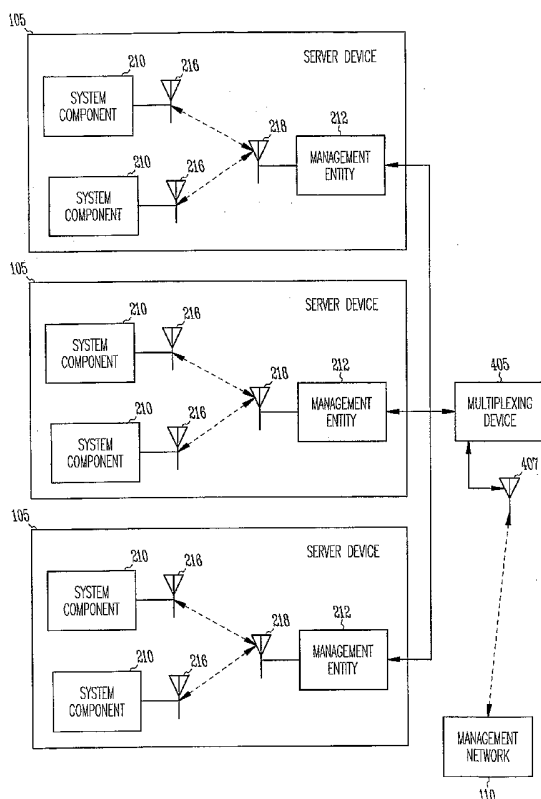
(74) Agents: **STEFFEY, Charles, E.** et al.; SCHWEGMAN, LUNDBERG WOESSNER & KLUTH, P.A., P.O. Box 2938, Minneapolis, Minnesota 55402 (US).

(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, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, 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, IS, IT, LT, LU, LV, 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).

[Continued on next page]

(54) Title: APPARATUS AND METHODS FOR IMPROVED MANAGEMENT OF SERVER DEVICES



(57) Abstract: Apparatus, systems and methods for improved management of devices, one embodiment of which includes a plurality of system components (210), at least one of which includes an antenna (216) coupled to the system component to transmit signals containing information related to at least one performance aspect of the system component. Other embodiments include a management entity (212) to receive the signals and analyze the information contained therein and to provide control signals meant to cause an alteration in at least one performance aspect of a system component (210).



Published:

— *with international search report*

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

7 December 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/US2005/047686

A. CLASSIFICATION OF SUBJECT MATTER

INV. H04L29/08

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)

H04L

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)

EP0-Internal, WPI Data, COMPENDEX, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/37070 A (OCEAN SYSTEMS ENGINEERING CORPORATION; RHOADES, DOUGLAS; MORGAN, GREGG) 10 May 2002 (2002-05-10) page 1, line 5 - line 19 page 2, line 13 - line 18 page 4, line 16 - page 6, line 8 page 6, line 22 - page 8, line 14 page 9, line 5 - line 12	1-6, 8-13, 27-29
Y	figures 1,7	14-16
X	EP 0 908 555 A (THE NASH ENGINEERING COMPANY) 14 April 1999 (1999-04-14) paragraph [0008] paragraph [0018] - paragraph [0022] paragraph [0025]	1-6, 17-22, 27-29
Y	figures 1,3	14-16



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

"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.

"&" document member of the same patent family

Date of the actual completion of the international search

28 April 2006

Date of mailing of the international search report

12.07.06

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

Cankaya, S

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2005/047686

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/26327 A (SENSORIA CORPORATION; GELVIN, DAVID, C; GIROD, LEWIS, D; KAISER, WILLI) 12 April 2001 (2001-04-12) page 1, line 10 - line 15 page 4, line 19 - page 5, line 3 page 9, line 5 - line 15 page 10, line 10 - line 22 page 15, line 4 - page 17, line 11 page 41, line 16 - page 42, line 14 page 51, line 19 - line 30 page 103, line 16 - line 24 page 104, line 16 - page 105, line 20 page 106, line 6 - last line figures 8-10 -----	1-6, 8-13, 27-29
X	BULT K ET AL: "WIRELESS INTEGRATED MICROSENSORS" TECHNICAL DIGEST, IEEE SOLID-STATE SENSOR & ACTUATOR WORKSHOP, NEW YORK, NY, US, 3 June 1996 (1996-06-03), pages 205-210, XP001023815 abstract page 205, left-hand column, last paragraph page 205, right-hand column, paragraph 3 page 209, left-hand column, paragraphs 4,5 -----	1
A	US 6 651 190 B1 (WORLEY CHRISTIAN B ET AL) 18 November 2003 (2003-11-18) column 2, line 54 - line 58 column 3, line 9 - line 41 -----	1-6, 8-13, 27-29
A	US 2003/030565 A1 (SAKATANI IKUNORI ET AL) 13 February 2003 (2003-02-13) paragraph [0004] paragraph [0167] - paragraph [0168] figure 1 -----	14-22

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2005/047686

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-6, 8-22, 27-29

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6,8-22,27-29

The first group of claims (claims 1-6,8-22,27-29) is directed to wireless communication between system components and management entities and multiplexing performance related signals received from said management entities before transmitting said performance related signals to a management network. This is done by sending performance related signals from the system components to the management entities, where said management entities are connected to a multiplexer. Performance related signals, received by the management entities, are multiplexed by said multiplexer and then transmitted as a single wireless signal to a management network.

2. claims: 7,23-26

The second group of claims (claims 7,23-26) is directed to wireless communication for management signals between system components and management entities and to wireless communication for bus signals between the system components. This is done by providing each system component with an antenna, where said antenna is used for both management signal transmission towards the management entity and bus signal transmission towards the other system components.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2005/047686

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0237070	A	10-05-2002	AU 3082102 A	15-05-2002
EP 0908555	A	14-04-1999	BR 9803985 A	07-12-1999
			CA 2248641 A1	03-04-1999
			JP 11161345 A	18-06-1999
			US 6104987 A	15-08-2000
WO 0126327	A	12-04-2001	AU 7861500 A	10-05-2001
			AU 7861600 A	10-05-2001
			AU 7861700 A	10-05-2001
			AU 7871800 A	10-05-2001
			AU 7873000 A	10-05-2001
			WO 0126328 A2	12-04-2001
			WO 0126329 A2	12-04-2001
			WO 0126330 A2	12-04-2001
			WO 0126331 A2	12-04-2001
			WO 0126332 A2	12-04-2001
			WO 0126333 A2	12-04-2001
			WO 0126334 A2	12-04-2001
			WO 0126337 A2	12-04-2001
			WO 0126338 A2	12-04-2001
US 6651190	B1	18-11-2003	NONE	
US 2003030565	A1	13-02-2003	CN 1401971 A	12-03-2003