

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 June 2006 (29.06.2006)

PCT

(10) International Publication Number
WO 2006/068747 A3

(51) International Patent Classification:
H04L 12/18 (2006.01)

(21) International Application Number:
PCT/US2005/041966

(22) International Filing Date:
18 November 2005 (18.11.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/018,301 21 December 2004 (21.12.2004) US

(71) Applicant (for all designated States except US): **MO-TOROLA, INC.** [US/US]; 1303 East Algonquin Road, Schaumburg, Illinois 60196 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **METKE, Anthony. R.** [US/US]; 1108 Tuthill Drive, Naperville, Illinois 60563 (US). **LOGALBO, Robert, D.** [US/US]; 4630 Teonia Woods Drive, Rolling Meadows, Illinois 60008 (US). **PANDEY, Aparna** [IN/US]; 1150 N. Lake Shore Drive, #19e, Chicago, Illinois 60611 (US).

(74) Agents: **SALADI, Indira** et al.; 1303 East Algonquin Road, Schaumburg, Illinois 60196 (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).

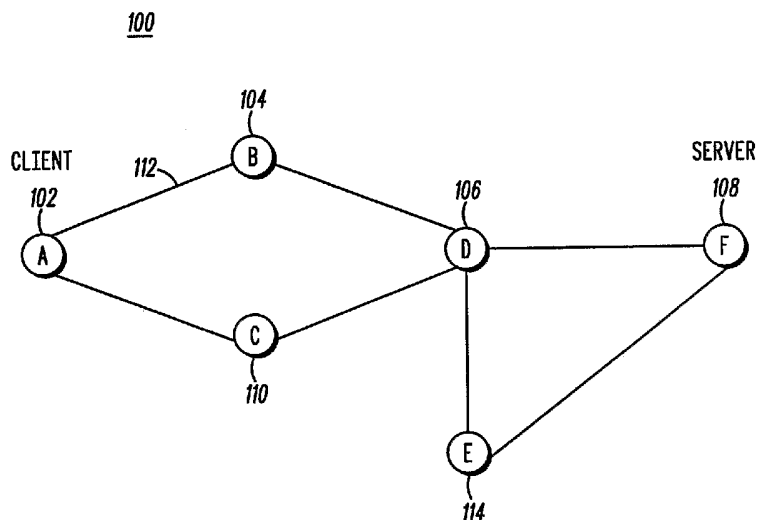
Published:

- 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:
14 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.

(54) Title: DISTRIBUTED DOMAIN NAME SERVICE



(57) Abstract: Distributed DNS in a wireless communication network comprising broadcasting by a first node a request message to a second node is disclosed. The request message comprises a hostname of the second node. The first node forwards the request message to the second node through intermediate nodes in the wireless communication network and the second node transmits a response message to the first node. The response message comprises a MAC address of the second node.

WO 2006/068747 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/41966

A. CLASSIFICATION OF SUBJECT MATTER

IPC: H04L 12/18(2006.01)

USPC: 370/389,392,400,401;709/217,218,219,227,228

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. : 370/389,392,400,401; 709/217, 218, 219, 227,228

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

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,434,627 B1 (MILLET et al) 13 August 2002 (13.08.2002), figure 4, columns 9-10.	1,7, and 8
A	US 2002/0049561 A1 (GARCIA-LUNA-ACEVES et al) 25 April 2002 (25.04.2002), figure 1, page 4, paragraph 0043-0045.	1-10
A	US 2002.0087726 A1 (MACPHERSON et al) 04 July 2002 (04.07.2002), figure 3, page 5, paragraph 0113-0114.	1-10

☐ 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	"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
"E" earlier application or patent published on or after the international filing date	"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
"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 obvious to a person skilled in the art
"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	"&" document member of the same patent family

Date of the actual completion of the international search

12 June 2006 (12.06.2006)

Date of mailing of the international search report

12 JUL 2006

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

Duc T. Duong

Telephone No. 571-272-2600

K. L. Logan