



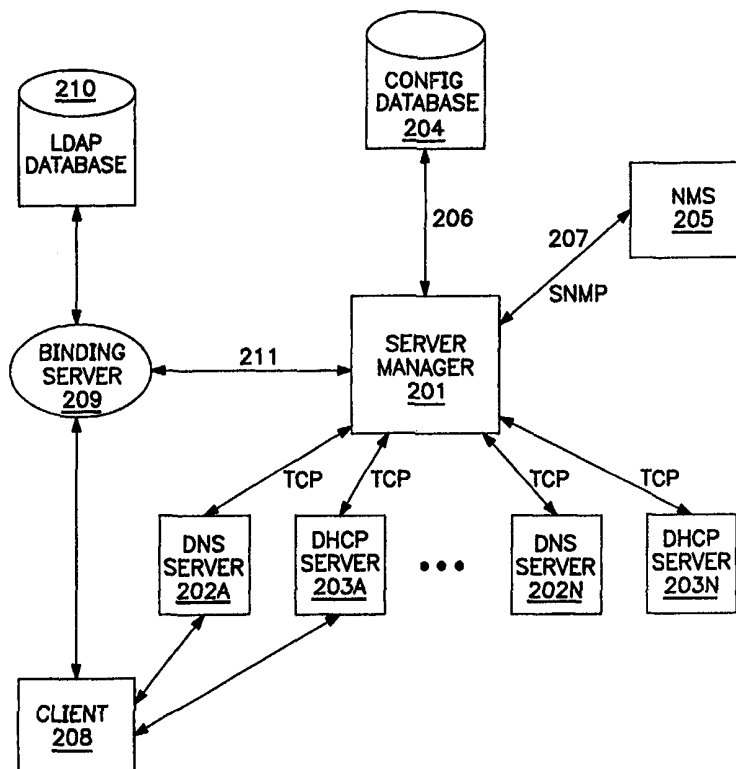
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(21) International Application Number: PCT/IB99/01878 (22) International Filing Date: 29 October 1999 (29.10.99) (30) Priority Data: 09/183,537 29 October 1998 (29.10.98) US (71) Applicant (for all designated States except US): NORTEL NETWORKS CORPORATION [CA/CA]; World Trade Center of Montreal, 8th floor, 380 St. Antoine Street West, Montreal, Quebec H2Y 3Y4 (CA). (72) Inventors; and (75) Inventors/Applicants (for US only): FARROW, Tony [CA/CA]; 221 3rd Avenue, Ottawa, Ontario K1S 2K2 (CA). HAMILTON, Ian [CA/CA]; 33 Northgate Street, Nepean, Ontario K2G 6C8 (CA). WATERS, Glenn [CA/CA]; 7450 Fallowfield Road, Stittsville, Ontario K2S 1B8 (CA). (74) Agents: MCGRAW, James et al.; Smart & Biggar, 900 - 55 Metcalfe Street, P.O. Box 2999, Station D, Ottawa, Ontario K1P 6L5 (CA).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, 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, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report. (88) Date of publication of the international search report: 31 August 2000 (31.08.00)	

(54) Title: ACTIVE SERVER MANAGEMENT

(57) Abstract

A method and apparatus for managing IP addressing in a network and effectively synchronizing communication between a central database and one or more servers (such as DNS and DHCP).



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INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/IB 99/01878

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L12/24 H04L29/12 G06F17/30

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)

IPC 7 H04L G06F

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 651 006 A (NAKAZAKI SHINICHI ET AL) 22 July 1997 (1997-07-22) abstract column 1, line 1 -column 3, line 55 column 5, line 34 -column 10, line 59 column 11, line 55 -column 13, line 8 column 16, line 49-67 column 17, line 28-34 column 22, line 18-44 figures 1-3,27	1-10
X	US 5 581 552 A (CIVANLAR SEYHAN ET AL) 3 December 1996 (1996-12-03) abstract column 1, line 16 -column 4, line 62 column 5, line 65 -column 10, line 19 column 15, line 12-18 --- -/--	1,3,4

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 99/01878

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 652 908 A (GLOWNY DAVID ANDREW ET AL) 29 July 1997 (1997-07-29)	1
A	abstract column 2, line 17 -column 3, line 3 column 3, line 37 -column 5, line 49 column 6, line 45-55 figures 1,5,7	7
A	CHUL-JIN PARK ET AL: "The improvement for integrity between DHCP and DNS" PROCEEDINGS. HIGH PERFORMANCE COMPUTING ON THE INFORMATION SUPERHIGHWAY,XX,XX, 28 April 1997 (1997-04-28), pages 511-516-516, XP002110636 page 511, left-hand column, line 1 -page 513, left-hand column, line 12 page 514, right-hand column, line 1 -page 515, right-hand column, line 30	1-10
A	A.S. TANENBAUM: "Computer Networks" 1996 , PRENTICE-HALL, INC. , NEW JERSEY, US XP002138500 394248 page 630, line 15 -page 633, line 4	4-6

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 99/01878

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5651006	A	22-07-1997	JP	7334445 A	22-12-1995
US 5581552	A	03-12-1996	NONE		
US 5652908	A	29-07-1997	EP	0537903 A	21-04-1993
			JP	2566711 B	25-12-1996
			JP	5257916 A	08-10-1993
			US	5537642 A	16-07-1996