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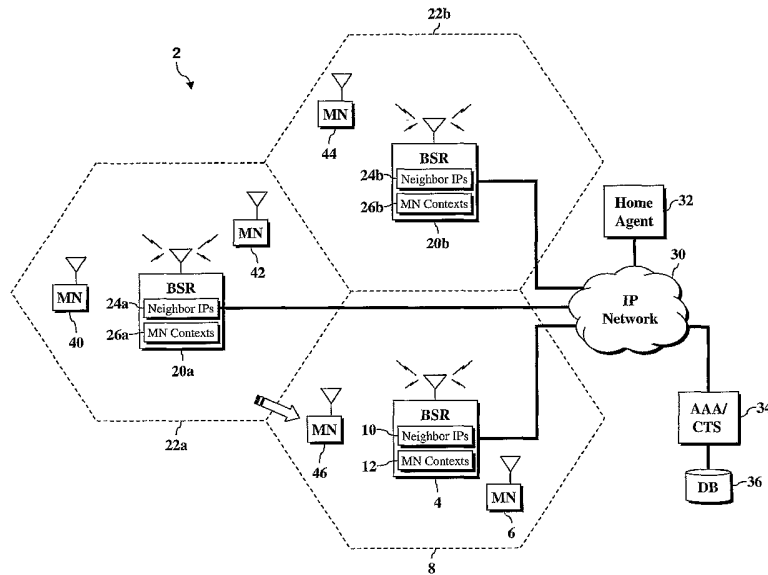
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- (71) Applicant (for all designated States except US): NEXTEL COMMUNICATIONS, INC. [US/US]; 2001 Edmund Halley Drive, Reston, VA 20191 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): WALL, Stephen, B. [US/US]; 1969 Logan Manor Drive, Reston, VA 20190 (US).
- (74) Agents: GALLAGHER, Dennis, R. et al.; Crowell & Moring LLP, Intellectual Property Group, P.O. Box 14300, Washington, DC 20044-4300 (US).

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(54) Title: SYSTEM AND METHOD FOR HANDOFF PROCESSING



(57) Abstract: A system (2) and method for optimizing handoff processing in networks with fully collapsed base station routers is disclosed. In accordance with exemplary embodiments of the present invention, handoff processing is optimized by allowing base station routers (4, 20a, 20b) to automatically discover, and maintain lists (10, 24a, 24b) of, their neighbor base station routers. Using the list of discovered neighbor base station routers, a base station router polls its neighbors for a list of all active users. The base station router then polls the Context Transfer Server (CTS) database for these users' contexts (1226a, 26b). Accordingly, instead of polling the CTS database during handoff, the present invention allows a base station router to activate the context from local memory.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04B 7/00; H04Q 7/00, 7/20; H04J 3/16; H04L 12/56
 US CL : 370/310, 331, 332, 346,352, 395.52; 455/436, 437, 438, 439, 440, 442, 443

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. : 370/310, 331, 332, 346,352, 395.52; 455/436, 437, 438, 439, 440, 442, 443

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)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 2005/0117524 A (LEE et al) 02 June 2005 (02.06.2005), abstract, Fig. 5, paragraphs 0006, 0022, 0028-0031.	1-24
Y, P	US 2004/0246933 A (VALKO et al) 09 December 2004 (09.12.2004), abstract, paragraphs 0004, 0074, 0080.	1-24
A	US 6,804,221 B (MAGRET et al) 12 OCTOBER 2004 (12.10.2004), see entire document.	1-24
A	US 2004/0002337 A (WHEELER et al) 01 January 2004 (01.01.2004), see entire document.	1-24
A	US 2003/0142642 A (AGRAWAL et al) 21 July 2003 (21.07.2003), see entire document.	1-24

Further documents are listed in the continuation of Box C. See patent family annex.

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
 Commissioner of Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

Authorized officer

Shick Hom

Telephone No. 571-272-3173

Facsimile No. (571) 273-3201

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Continuation of B. FIELDS SEARCHED Item 3:

East Search:

search terms: handoff, handover, source base station, destination base station, mobile IP, internet, registered node context IP address, stored context, temporary tunnel, low-priority tunnel, DHCP service, cache