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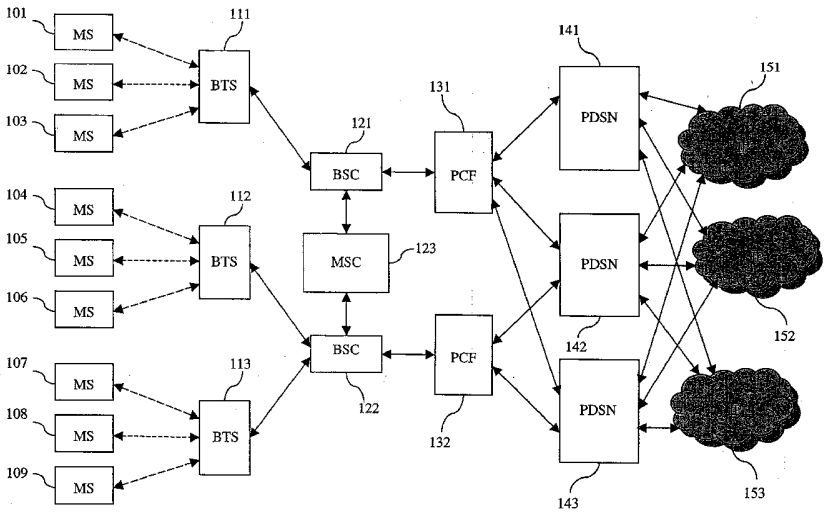
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[Continued on next page]

(54) Title: METHODS AND SYSTEMS FOR PROVIDING IMPROVED HANDOFFS IN A WIRELESS COMMUNICATION SYSTEM



(57) Abstract: Methods and systems are provided for performing handoff in a wireless communication system (100) that uses a packet data serving node (PDSN) (141) having more than one Internet Protocol (IP) address. A mobile station (MS) (101) uses a first packet control function (PCF) (131) to establish a first session using a first IP address of the PDSN when in an area being served by a first base transceiver station (BTS) (111). The MS uses a second PCF to establish a second session with a second IP address of the PSDN when in an area served by the second BTS. The PSDN treating the handoff between the first IP address and the second IP address as a soft handoff.

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International application No.
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A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : H04Q 7/00, 7/20; H04B 7/216, 1/69; H04J 13/00
US CL : 370/331, 320, 335, 342, 441; 455/436, 442
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. : 370/331, 320, 335, 342, 441; 455/436, 442

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.
Y	US 2003/0063584 A1 (SAYEEDI) 03 April 2003 (03.4.2003), page 2 paragraph 0016	1-33
Y	US 2002/0067707 A1 (MORALES et al) 06 June 2002 (06.6.2002), page 2 paragraphs 0017, 0018, 0022 and page 3 paragraph 0032	1-33
A	US 2002/0057658 A1 (LIM) 16 May 2002 (16.5.2002)	1-33
A	US 2002/0114293 A1 (MADOUR et al) 22 August 2002 (22.8.2002)	1-33
A	US 2003/0185183 A1 (LOHTIA et al) 02 October 2003 (02.10.2003)	1-33

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

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INTERNATIONAL SEARCH REPORT

International application No.
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Continuation of Item 4 of the first sheet:
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NEW TITLE: Providing Improved Handoffs in a Wireless Communication System