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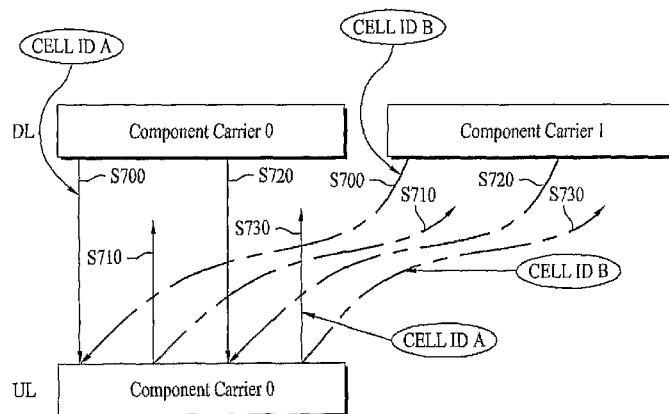
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[Continued on next page]

(54) Title: METHOD FOR USER EQUIPMENT TO PERFORM RANDOM ACCESS TO BASE STATION IN WIRELESS COMMUNICATION SYSTEM THAT SUPPORTS MULTIPLE UPLINK AND DOWNLINK CARRIERS

FIG. 7



(57) Abstract: A method for a user equipment to perform random access to a base station in a wireless communication system that supports multiple uplink and downlink carriers is provided. In the method, system information including cell identifier information of each of the downlink component carriers and PRACH TF slot and preamble sequence information which is common to all downlink component carriers, the system information being broadcast through each downlink component carrier corresponding to the cell identifier information, is received. A PRACH preamble is transmitted through one uplink component carrier linked to the downlink component carriers using the received PRACH TF slot and preamble sequence information. An RACH response is received through each of the downlink component carriers. The cell identifier information is used to transmit a Radio Resource Control (RRC) connection request signal and cell identifier information of a downlink component carrier, which the user equipment desires to access among the downlink component carriers.

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Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) &amp; Keywords: wireless communication, base station, random access, channel.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2007-0107619 A (ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE) 07 November 2007 See the abstract, figures 1-3, claims 1-3.	1-10
A	KR 10-0788901 B1 (ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE) 27 December 2007 See the abstract, figures 4-7b, claim 1.	1-10
A	US 2004-0071194 A1 (SHINGO SUWA et al.) 15 April 2004 See the abstract, figures 5a-5b, paragraphs [0069]-[0075].	1-10
A	US 2002-0075839 A1 (STEPHEN G. DICK et al.) 20 June 2002 See the abstract, figures 1-5, paragraphs [0021]-[0032].	1-10

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

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