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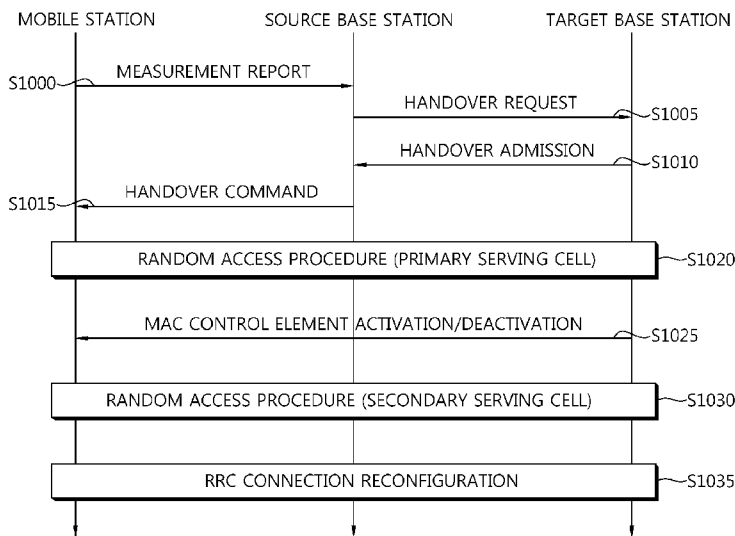
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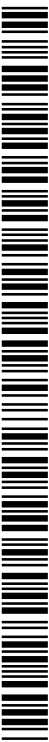
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(54) Title: APPARATUS AND METHOD FOR PERFORMING UPLINK SYNCHRONIZATION IN MULTIPLE COMPONENT CARRIER SYSTEM

[Fig. 10]



(57) Abstract: An apparatus and method for performing uplink synchronization in a multiple component carrier system are provided. The method includes: receiving a handover command message from a first base station, the handover command message including a timing alignment value for adjusting uplink timing of a secondary serving cell of a second base station; performing handover from the first base station to the second base station based on the handover command message; adjusting the uplink timing of the secondary serving cell of the second base station based on the timing alignment value; and performing a random access through the secondary serving cell of the second base station based on the adjusted uplink timing. According to the present invention, deactivated secondary serving cells of a target base station are rapidly activated, and increase efficiency of uplink data transmission after the handover.



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A. CLASSIFICATION OF SUBJECT MATTER*H04W 56/00(2009.01)i, H04W 36/08(2009.01)i, H04W 74/08(2009.01)i*

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)

H04W 56/00; H04W 74/08; H04W 52/02; H04W 36/08; H04W 36/30; H04W 36/02

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) & Keywords: uplink synchronization , handover , preamble

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2010-0102561 A (LG ELECTRONICS INC.) 24 September 2010 See claims 1-12 and figures 1-8.	1-19
A	KR 10-2010-0105438 A (HTC CORPORATION) 29 September 2010 See claims 1-28 and figures 1-4.	1-19
A	KR 10-2008-0018104 A (LG ELECTRONICS INC.) 27 February 2008 See claims 1-10 and figures 1-7.	1-19

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

* Special categories of cited documents:

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"P" document published prior to the international filing date but later than the priority date claimed

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"&" document member of the same patent family

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