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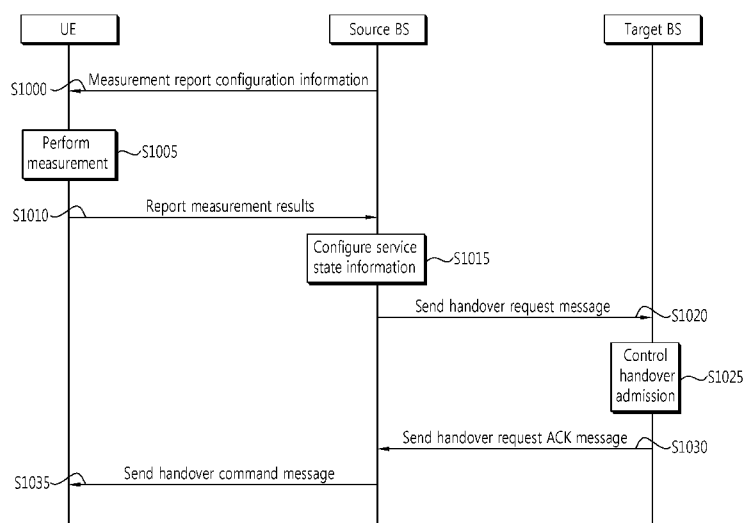
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[Continued on next page]

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

[Fig. 10]



(57) **Abstract:** The present invention provides an apparatus and method for performing handover in a multiple component carrier system. In an aspect, a method of a target Base Station (BS) performing handover in a multiple component carrier system includes receiving service state information, including information about at least one candidate cell, from a source BS through a handover request message, calculating a final determination value for determining a final cell for a User Equipment (UE) which is a subject of the handover based on the service state information, selecting the final cell by comparing the final determination value and the information about the candidate cell, and sending a handover request ACK message, including information about the selected final cell, to the source BS.



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**A. CLASSIFICATION OF SUBJECT MATTER*****H04W 36/08(2009.01)i, H04W 36/30(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 36/08; H04B 7/26; H04W 36/30

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: handover, multicarrier, cell list

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                      | Relevant to claim No. |
|-----------|---------------------------------------------------------------------------------------------------------|-----------------------|
| X         | WO 2010-024591 A2 (LG ELECTRONICS INC.) 04 March 2010<br>See paragraphs [27]-[40] and claims 1,6.       | 1,3-11,15,17,19,20    |
| A         | KR 10-2008-0080803 A (SAMSUNG ELECTRONICS CO., LTD.) 05 September 2008<br>See abstract and figures 3,7. | 1-20                  |
| A         | KR 10-2008-0087370 A (LG ELECTRONICS INC.) 01 October 2008<br>See figures 3 and 4.                      | 1-20                  |



Further documents are listed in the continuation of Box C.



See patent family annex.

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

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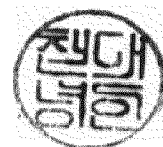
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Information on patent family members

International application No.

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| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s)                 | Publication<br>date      |
|-------------------------------------------|---------------------|--------------------------------------------|--------------------------|
| WO 2010-024591 A2                         | 04.03.2010          | KR 10-2010-0025474 A<br>US 2011-0149912 A1 | 09.03.2010<br>23.06.2011 |
| KR 10-2008-0080803 A                      | 05.09.2008          | None                                       |                          |
| KR 10-2008-0087370 A                      | 01.10.2008          | None                                       |                          |