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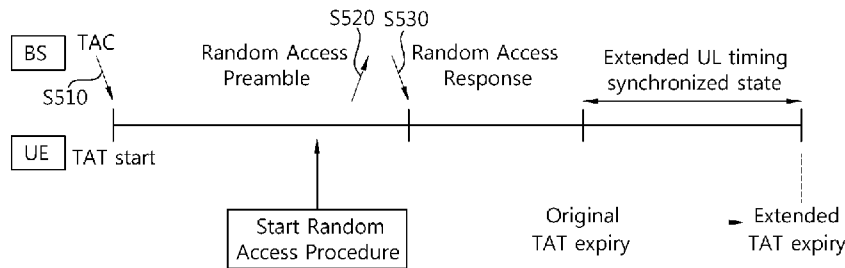
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(54) Title: METHOD AND APPARATUS FOR MANAGING UPLINK TIME ALIGNMENT

[Fig. 5]



(57) Abstract: A method and apparatus of managing uplink time alignment in a wireless communication system is provided. A user equipment transmits a random access preamble to maintain an uplink time alignment to a base station and receives a random access response in response to the random access preamble from the base station.

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A. CLASSIFICATION OF SUBJECT MATTER***H04W 56/00(2009.01)i, H04W 88/02(2009.01)i, H04W 52/02(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; H04B 7/26; H04L 7/10; H04W 72/00

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 time alignment , random access preamble , TAC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	KR 10-2009-0116590 A (LG ELECTRONICS INC.) 11 November 2009 See paragraphs [33], [44], [45], [55].	1-3, 6-9, 12 4-5, 10-11
Y	KR 10-2009-0076805 A (LG ELECTRONICS INC.) 13 July 2009 See paragraph [35] and claims 4, 10.	4-5, 10-11
A	KR 10-2009-0052822 A (LG ELECTRONICS INC.) 26 May 2009 See claims 1-13 and figures 1-9.	1-12

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

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