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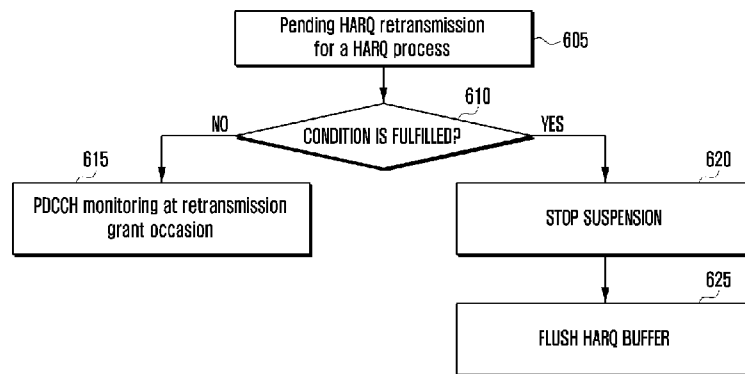
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(54) Title: BATTERY CONSUMPTION CONTROL METHOD OF USER EQUIPMENT IN MOBILE COMMUNICATION SYSTEM

[Fig. 6]



(57) Abstract: A method and apparatus for controlling battery consumption of the User Equipment (UE) equipped with a feature such as Carrier Aggregation is provided. The battery consumption control method of a terminal operating in Semi-Persistent Scheduling (SPS) mode includes determining, when Hybrid Automatic Repeat reQuest (HARQ) Acknowledgement (ACK) is received, whether a suspension restriction condition is fulfilled, and stopping, when the suspension restriction condition is fulfilled, suspension to flush an HARQ buffer and not monitor a retransmission grant. The battery consumption control method may improve Discontinuous Reception (DRX) efficiency and reduce an unnecessary waste of battery power.

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**A. CLASSIFICATION OF SUBJECT MATTER*****H04W 52/02(2009.01)i, H04W 72/12(2009.01)i, H04L 1/18(2006.01)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 52/02; H04B 7/26; H04W 72/12; H04L 1/14; H04L 1/18

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: SPS , HARQ , DRX , grant

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 10-2009-0101796 A (SAMSUNG ELECTRONICS CO., LTD.) 29 September 2009 See paragraphs [26],[55],[56],[104],[105],[108],[109],[117],[118] and figures 12-15.	1-15
A	KR 10-2009-0031181 A (SAMSUNG ELECTRONICS CO., LTD.) 25 March 2009 See claims 1-14 and figures 1-8.	1-15
A	KR 10-2010-0080280 A (SAMSUNG ELECTRONICS CO., LTD.) 08 July 2010 See claims 1-5 and figures 1-13.	1-15

 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

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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