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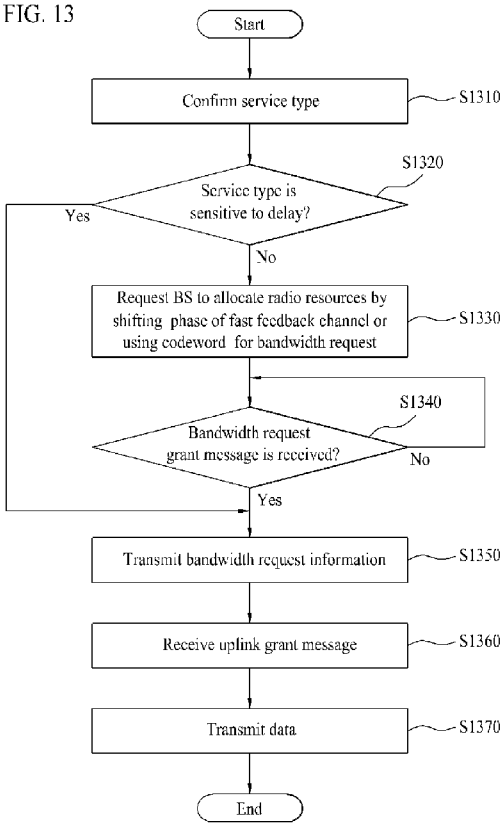
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*[Continued on next page]*

(54) **Title**: METHOD FOR TRANSMITTING DATA ACCORDING TO DYNAMIC RESOURCE REQUEST

FIG. 13




(57) **Abstract**: A method for transmitting uplink data according to a dynamic resource request is disclosed. The method includes confirming, at a mobile station, whether a service type for a bandwidth request is sensitive to delay, if the service type is not sensitive to delay, shifting a phase of a fast feedback channel and transmitting the phase-shifted fast feedback channel, if the service type is sensitive to delay or if a bandwidth request grant message corresponding to the phase-shifted fast feedback channel is received from a base station, transmitting a bandwidth request information corresponding to the service type to the base station, and upon receiving an uplink grant message for an uplink resource according to the bandwidth request information from the base station, transmitting data though the uplink resource. As a result, collision does not occur during a resource request, quality of service (QoS) of a real-time traffic sensitive to delay can be satisfied, an uplink allocation request procedure is dynamically changed according to a service type, thus reducing message overhead, and a resource can be efficiently used according to a characteristic of a service provided to the mobile station.

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TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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**A. CLASSIFICATION OF SUBJECT MATTER**

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**B. FIELDS SEARCHED**

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 since 1975.
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eKOMPASS(KIPO internal) & Keywords: contention free, bandwidth request, service type, resource

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| A | US 2006-0239241 A1 (EOM, KWANG-SEOP et al.) 26 October 2006<br>See the abstract, paragraphs [0046]-[0061], figures 4 and 5 | 1-14 |
| A | US 2007-0274265 A1 (YOON, CHUL-SIK et al.) 29 November 2007<br>See the abstract, paragraphs [0052]-[0058], figure 7 | 1-14 |

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
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| | | KR 10-20060110950 A | 26.10.2006 |
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| | | WO 2005-040960 A2 | 06.05.2005 |
| | | WO 2005-040960 A3 | 22.12.2005 |