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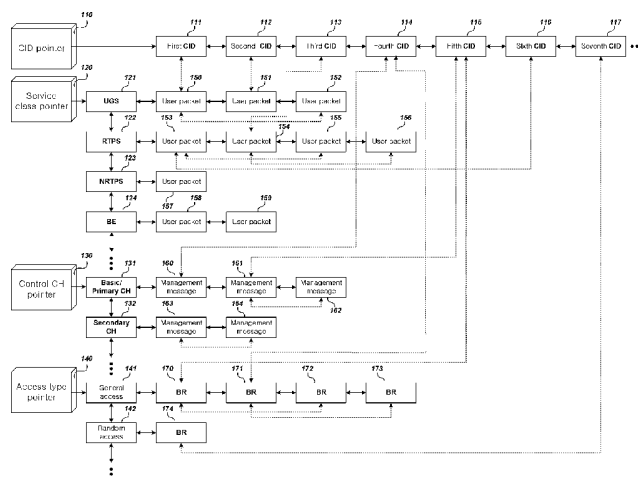
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[Continued on next page]

(54) Title: INTERNAL DATA STRUCTURE OF MOBILE TERMINAL FOR QOS-BASED UPLINK DATA TRANSMISSION, AND OPERATIONAL METHODS THEREOF



(57) Abstract: A recording medium having an internal data structure for uplink data transmission based on QoS in a mobile terminal of an OFDMA/TDMA-based high-speed portable Internet system, the internal data structure comprising a connection identifier index indicating a predetermined connection of the mobile terminal; a service class index indicating QoS classes of uplink data; a control channel index indicating a type of a control channel for transmission of a management message of the mobile terminal; an access type index indicating a type of access for a bandwidth request of the mobile terminal; a user packet list having IP packets linked to each other through a linked list; a management message list having the management messages linked to each other through a linked list; and a bandwidth request list having informative elements that are linked to each other for the bandwidth request through a linked list.



SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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A. CLASSIFICATION OF SUBJECT MATTER

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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)

IPC⁸: H04L 12/56, H04Q 11/02, 11/04Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
GoogleElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPODOC, PAJ, WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 640 248 B1 (J.W. JORGENSEN) 28 October 2003 (28.10.2003) <i>abstract, claims, figure 4.</i>	1, 12, 14
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A	US 6 104 700 A (S.R. HADDOCK et al.) 15 August 2000 (15.08.2000) <i>the whole document.</i>	1, 12, 14
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A	US 6 744 767 A (A.L. CHIU et al.) 1 June 2004 (01.06.2004) <i>abstract, colum 1, line 8 to cholumn 2, line 56, claims, figures 3-10.</i>	1, 12, 14
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☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 388 954 A2 (DISEÑO DE SISTEMAS EN SILICIO S.A.) 11 February 2004 (11.02.2004) <i>abstract, claims, figure 1.</i> -----	1, 12, 14

INTERNATIONAL SEARCH REPORT

Information on patent family members

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