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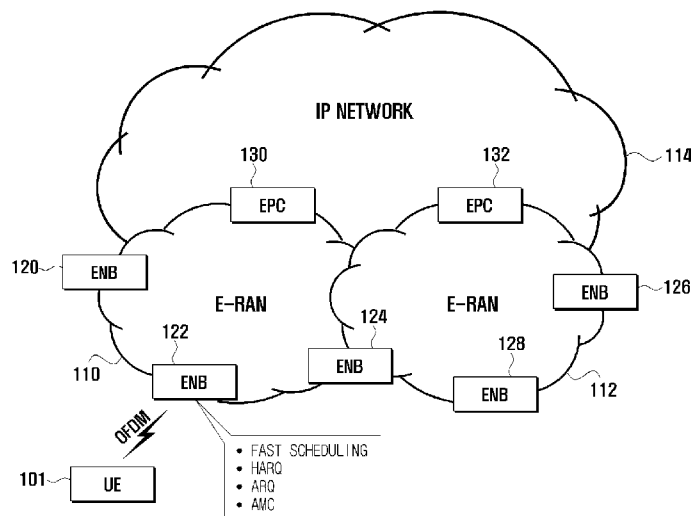
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[Continued on next page]

(54) Title: A METHOD AND APPARATUS FOR PROCESSING CONTROL MESSAGE WHICH REQUESTS RETRANSMITTING DATA

(CONVENTIONAL ART)

[Fig. 1]



(57) Abstract: A method and an apparatus for processing a control message for a request of retransmission are provided. The method includes generating a First Missing Serial number (FMS) describing a serial number of a data unit having a lowest serial number among data units which are not received, determining whether a data unit having a serial number greater than the serial number described in the FMS exists due to an out of sequence among data units which are previously received, generating a bitmap indicating a reception of a plurality of data units having a serial number greater than the FMS, if a data unit which is out of sequence exists, and connecting and transmitting the FMS and the bitmap.

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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)

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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

Japanese utility models and applications for utility models

(Chinese Patents and application for patent)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) &amp; IEEE xplore

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003-0081576 A1 (NOH-SUN KIM et al.) 01 May 2003 See abstract; page 3 paragraph[0054] - page 10 paragraph[0164]	1-12
A	US 2003-0088822 A1 (HUN-KEE KIM et al.) 08 May 2003 See abstract; page 6 paragraph[0047] - page 11 paragraph[0095]	1-12
A	KR 10-2002-0014941 A (LG ELECTRONICS INC.) 27 February 2002 See page 2 line 13 - page 3 line 34	1,4

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

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