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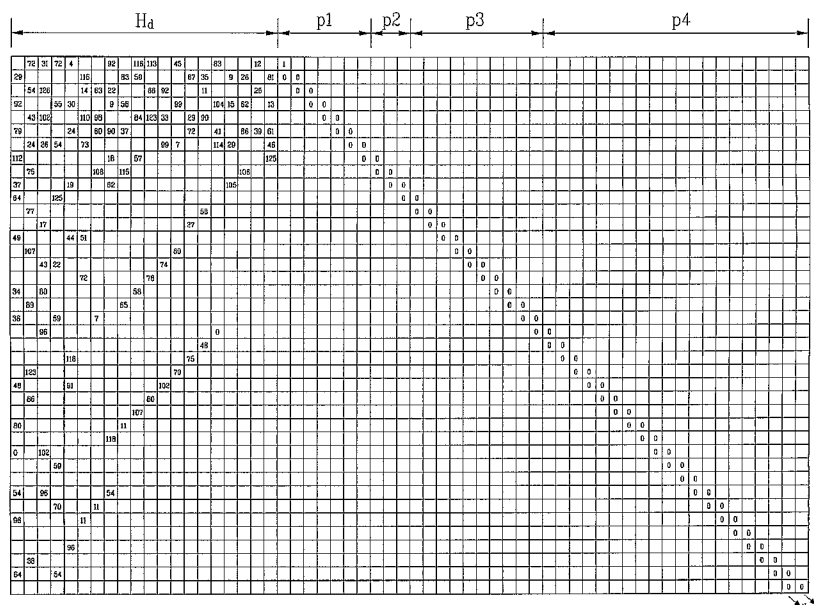
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(54) Title: METHOD OF ENCODING/DECODING USING LOW DENSITY CHECK CODE MATRIX



(57) Abstract: A method of encoding data using a parity check matrix, a method of decoding encoded data, and a data retransmission method using the same are disclosed. A method of encoding data by LDPC code using a parity check matrix includes variably selecting a specific sub-matrix from a parity check matrix in accordance with a coding rate to be used for encoding, the parity check matrix including at least two sub-matrices, and encoding an input data stream by using the selected sub-matrix.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 2007/002758

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁸: **H03M 13/11** (2006.01); **H04L 1/00** (2006.01)

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: H03M, H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

WPI, EPODOC, Elsevier, IEE, IEEEExplore, Research Disclosure, IBM TDB, Inspec

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/221223 A1 (YU et al.) 4 November 2004 (04.11.2004) <i>Figures; Abstract;</i> <i>Paragraphs 3-37, 64, 65</i> --	1-40
X	WO 2005/036758 A1 (SAMSUNG ELECTRONICS) 21 April 2005 (21.04.2005) <i>Figures; Abstract;</i> <i>Page 3, Line 14 - Page 4, Line 20</i> --	1-40
X	WO 2006/039801 A1 (NORTEL NETWORKS) 20 April 2006 (20.04.2006) <i>Figures; Abstract;</i> <i>Page 15, Line 14 - Page 18, Line 31</i> ----	1-40

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

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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