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(74) Agent: ELLA CHEONG SPRUSON & FERGUSON
(SINGAPORE) PTE LTD; P.O. Box 1531, Robinson
Road Post Office, Singapore 903031 (SG).

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(71) Applicant (for all designated States except US): **PANA-
SONIC CORPORATION** [JP/JP]; 1006 Oaza Kadoma,
Kadoma-shi, Osaka, 5718501 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YU, Qian** [CN/SG];
Blk 1022, Tai Seng Avenue, #06-3530, Tai Seng Industrial
Estate, Singapore, Singapore 534415 (SG). **LUO, Ping**
[CN/SG]; Blk 1022, Tai Seng Avenue, #06-3530, Tai Seng
Industrial Estate, Singapore, Singapore 534415 (SG).
HOSHINO, Masayuki [JP/JP]; c/o Panasonic Corpora-
tion, 1006 Oaza Kadoma, Kadoma-shi, Osaka 571-8501
(JP).

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(54) Title: A METHOD AND SYSTEM FOR DATA TRANSMISSION IN A MULTIPLE INPUT MULTIPLE OUTPUT (MIMO) SYSTEM

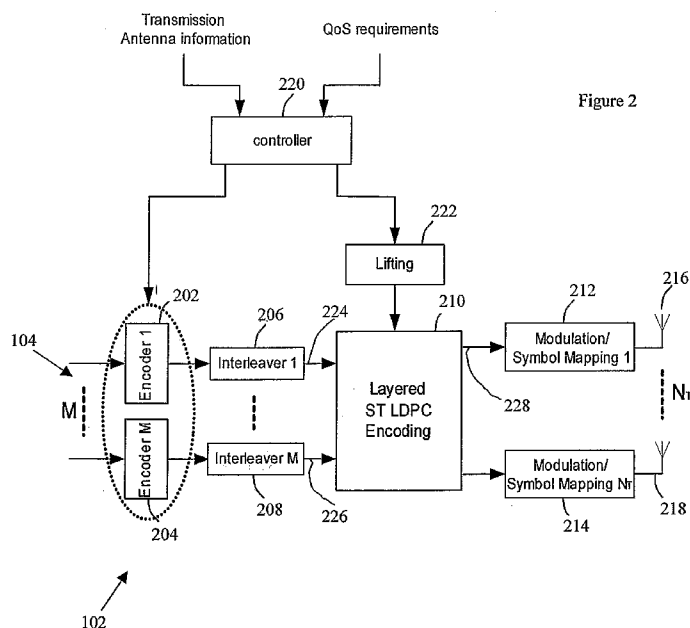


Figure 2

(57) Abstract: A method for data transmission in a multiple input multiple output (MIMO) system, the method comprising, receiving multiple input data streams; performing low density parity check (LDPC) encoding of the input data streams utilising a parity check matrix, wherein the parity check matrix comprises a plurality of sub-parity check matrices for encoding respective ones of the input data streams; and performing space time encoding for transmitting the LDPC encoded input data streams over a plurality of antennas.

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