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(54) Title: METHODS AND APPARATUS TO IMPROVE PERFORMANCE AND ENABLE FAST DECODING OF TRANSMISSIONS WITH MULTIPLE CODE BLOCKS

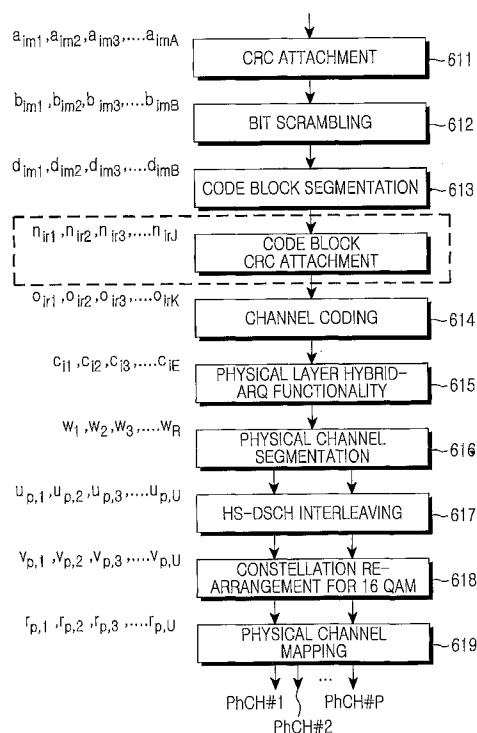


FIG.13

(57) Abstract: A method includes separating resource elements from multiple code blocks into different groups, and decoding the code bits of the resource elements within each group without waiting for a completed reception of a transport block to start decoding. A method includes separating coded bits from multiple code blocks into different groups, and decoding the code blocks containing coded bits within each group. A first CRC is attached to the transport block and a second CRC is attached to at least one code block from the transport block. An improved channel interleaver design method including mapping from coded bits of different code blocks to modulation symbols, and mapping from modulation symbols to time, frequency, and spatial resources, to make sure each code block to get roughly the same level of protection.



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