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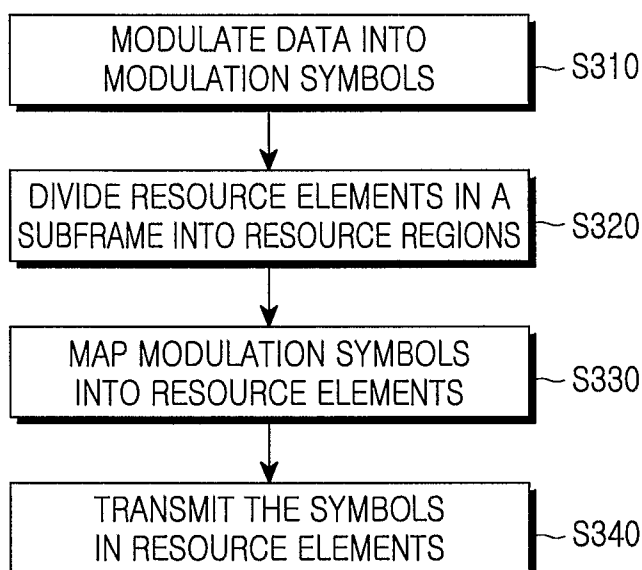


FIG.13

(57) Abstract: A method for transmission, by dividing a transmission resource in a time domain subframe into a plurality of equal duration resource elements in a time and frequency domain, segregating the plurality of resource elements into a plurality of resource regions, modulating information to be transmitted to generate a sequence of modulation symbols at a transmitter, mapping the sequence of modulation symbols into the plurality of resource elements in the plurality of resource regions, and transmitting the modulation symbols via a plurality of antennas using the respective corresponding resource elements to a receiver. The information to be transmitted may be encoded to generate a plurality of code blocks, with roughly equal number of resource elements assigned to each of the plurality of code blocks in at least one resource region. Alternatively, the time domain subframe may contain only one resource region.

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