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(54) **METHOD AND APPARATUS FOR MULTIPLEXING DATA AND CONTROL INFORMATION IN WIRELESS COMMUNICATION SYSTEMS BASED ON FREQUENCY DIVISION MULTIPLE ACCESS**

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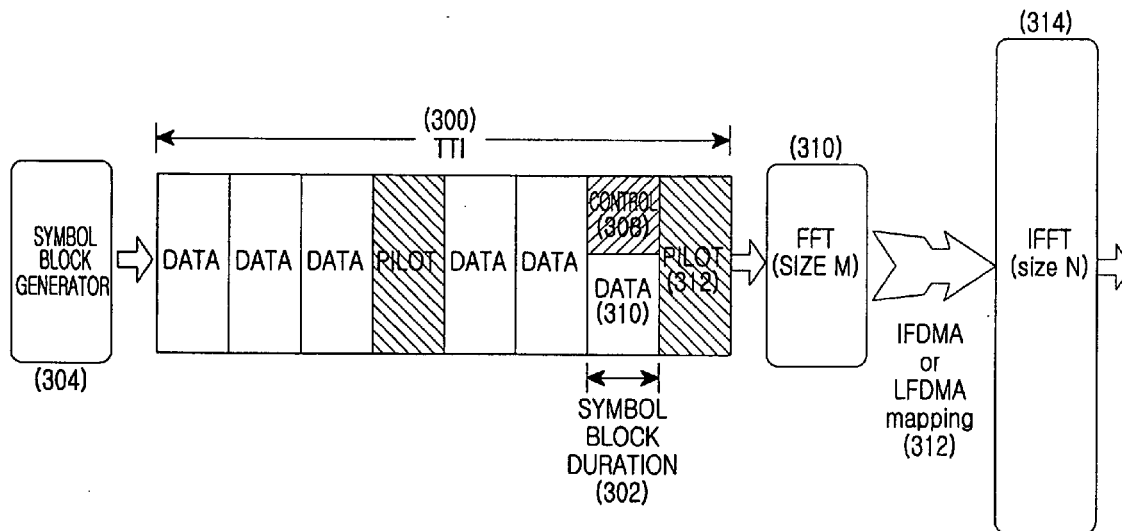
(57) **ABSTRACT**

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An apparatus for transmitting data in a frequency division multiple access based communication system is disclosed. The apparatus includes a symbol block generator for generating a symbol block in a predetermined symbol block period within one TTI when control information to be transmitted exists in the TTI, an FFT unit for performing FFT on the symbol block, and an IFFT unit for performing IFFT on signals output from the FFT unit and then transmitting the signals. The symbol block includes the control information and data to be transmitted. The TTI includes multiple symbol block periods.

(21) Appl. No.: **11/416,393**

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APPLE 1005

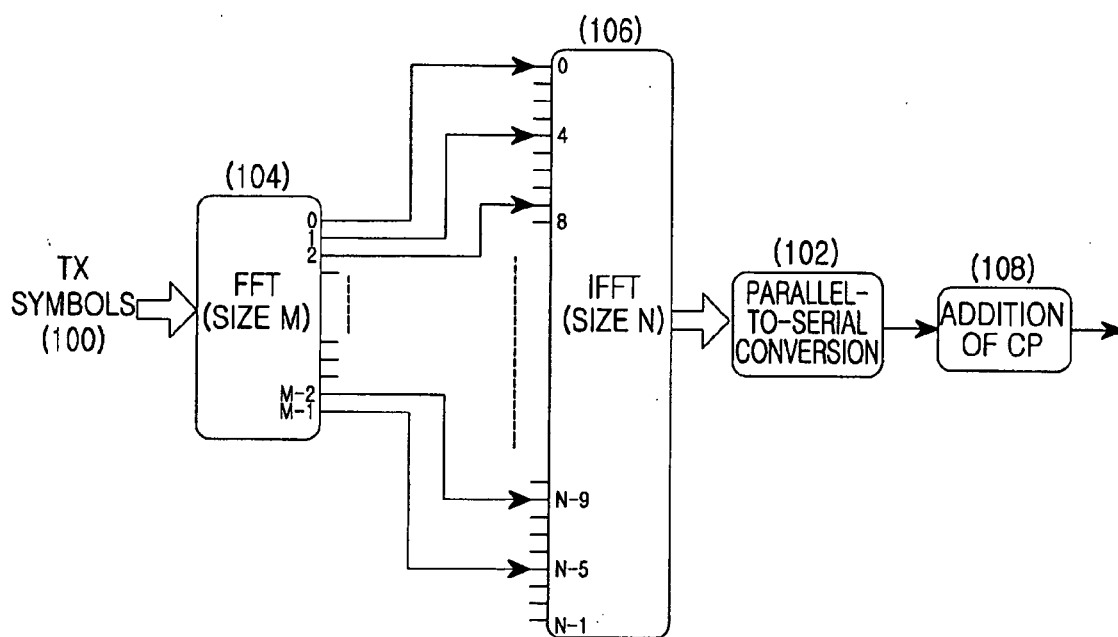


FIG. 1
(CONVENTIONAL ART)

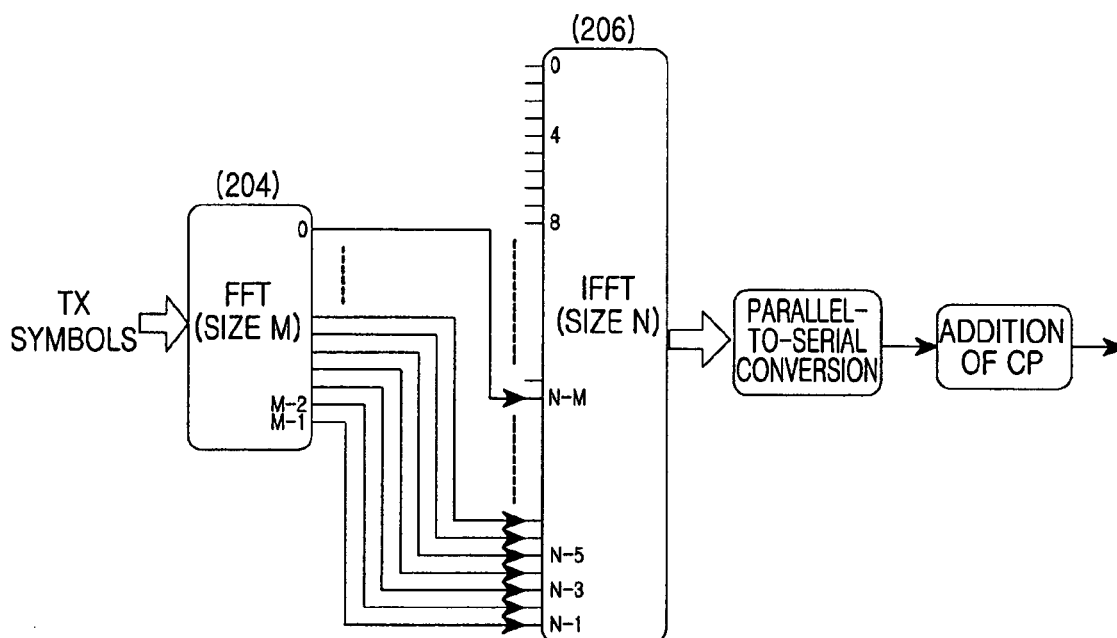


FIG. 2
(CONVENTIONAL ART)

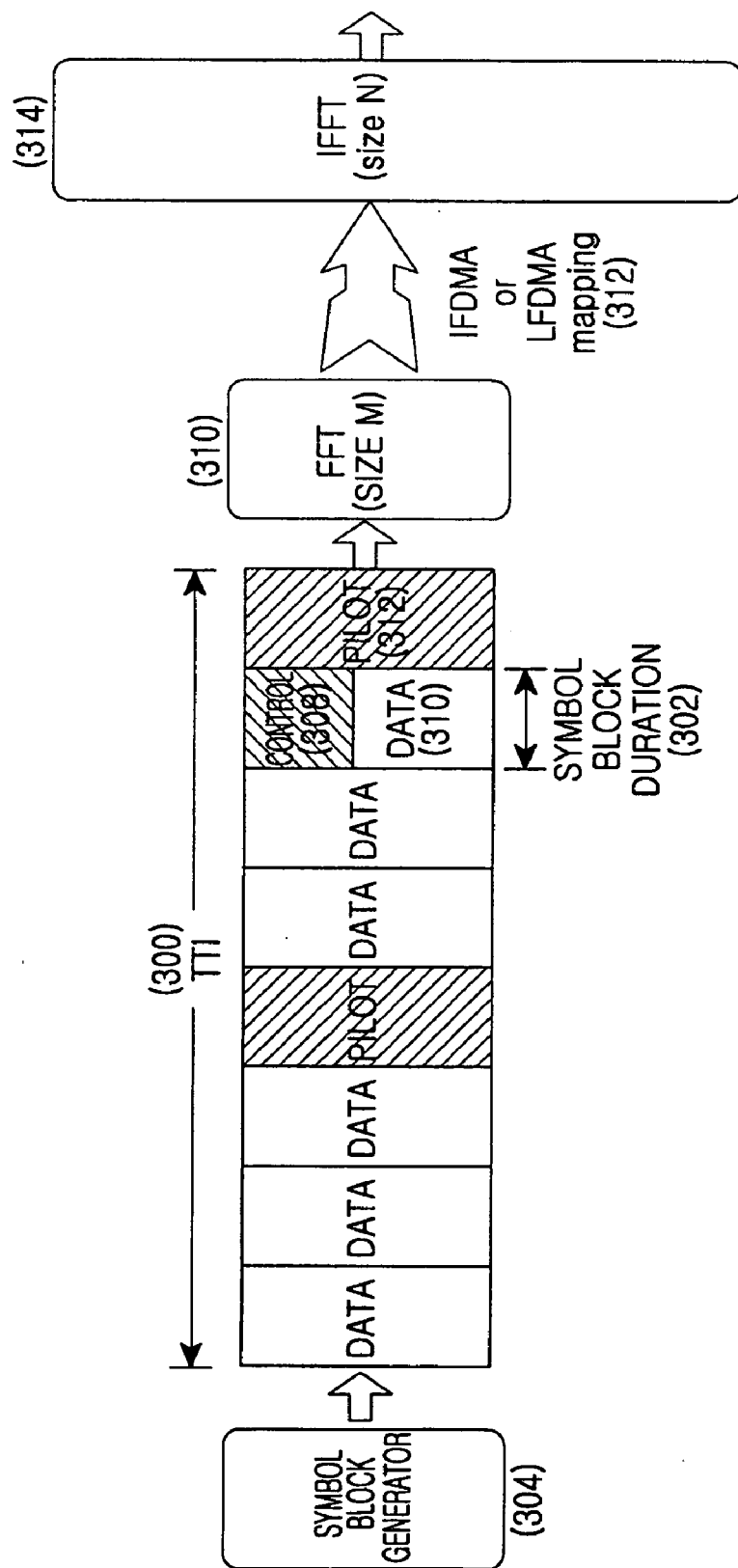


FIG. 3

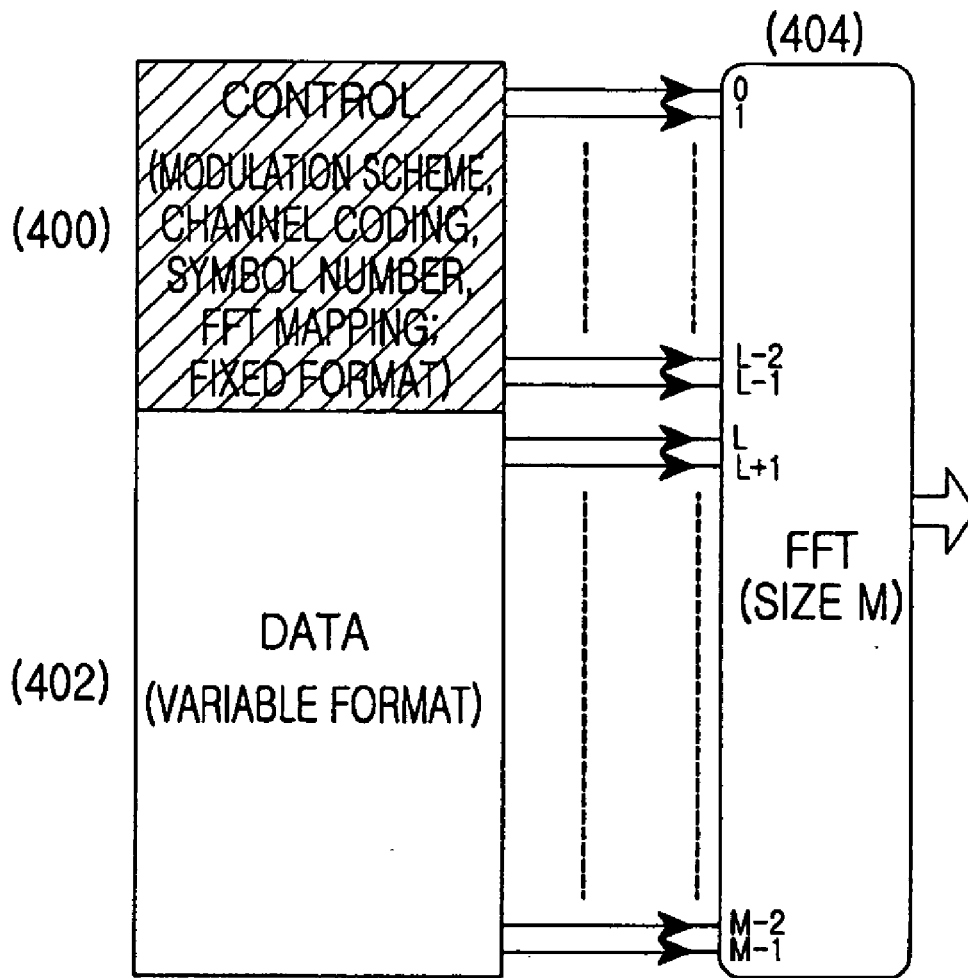


FIG.4

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