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

(30) **Foreign Application Priority Data**

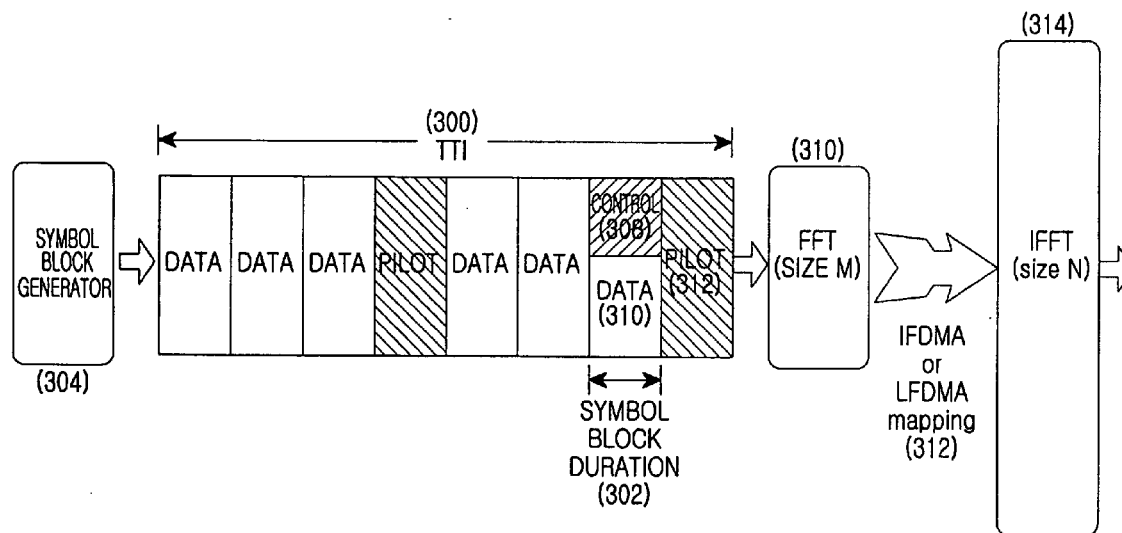
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H04K 1/10 (2006.01)(52) **U.S. Cl.** **375/260**(57) **ABSTRACT**

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.

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APPLE 1005

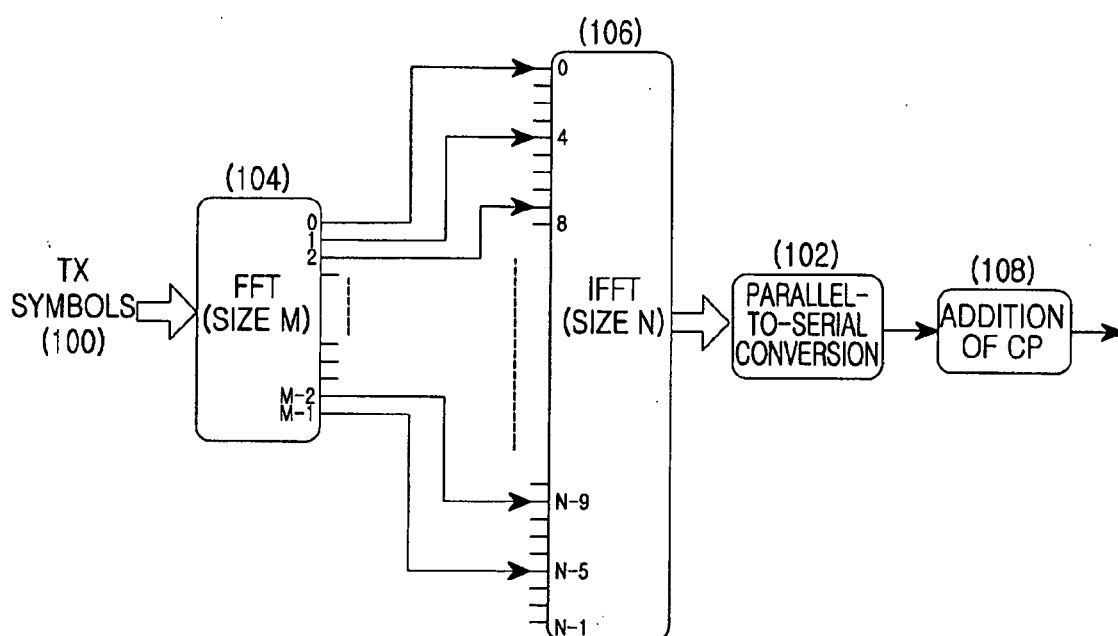


FIG.1
(CONVENTIONAL ART)

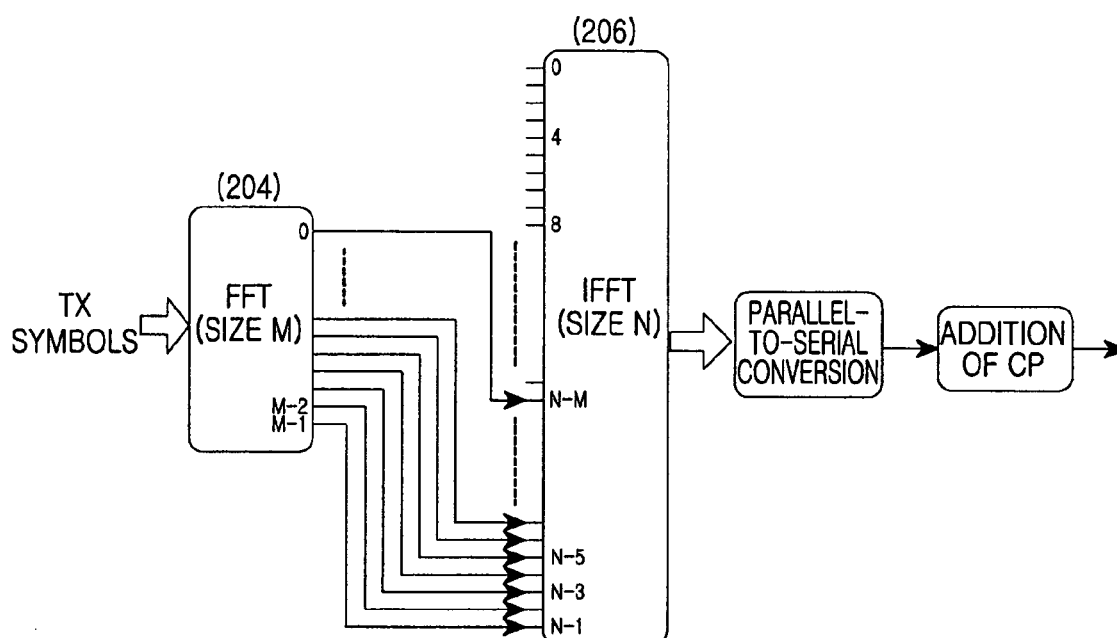
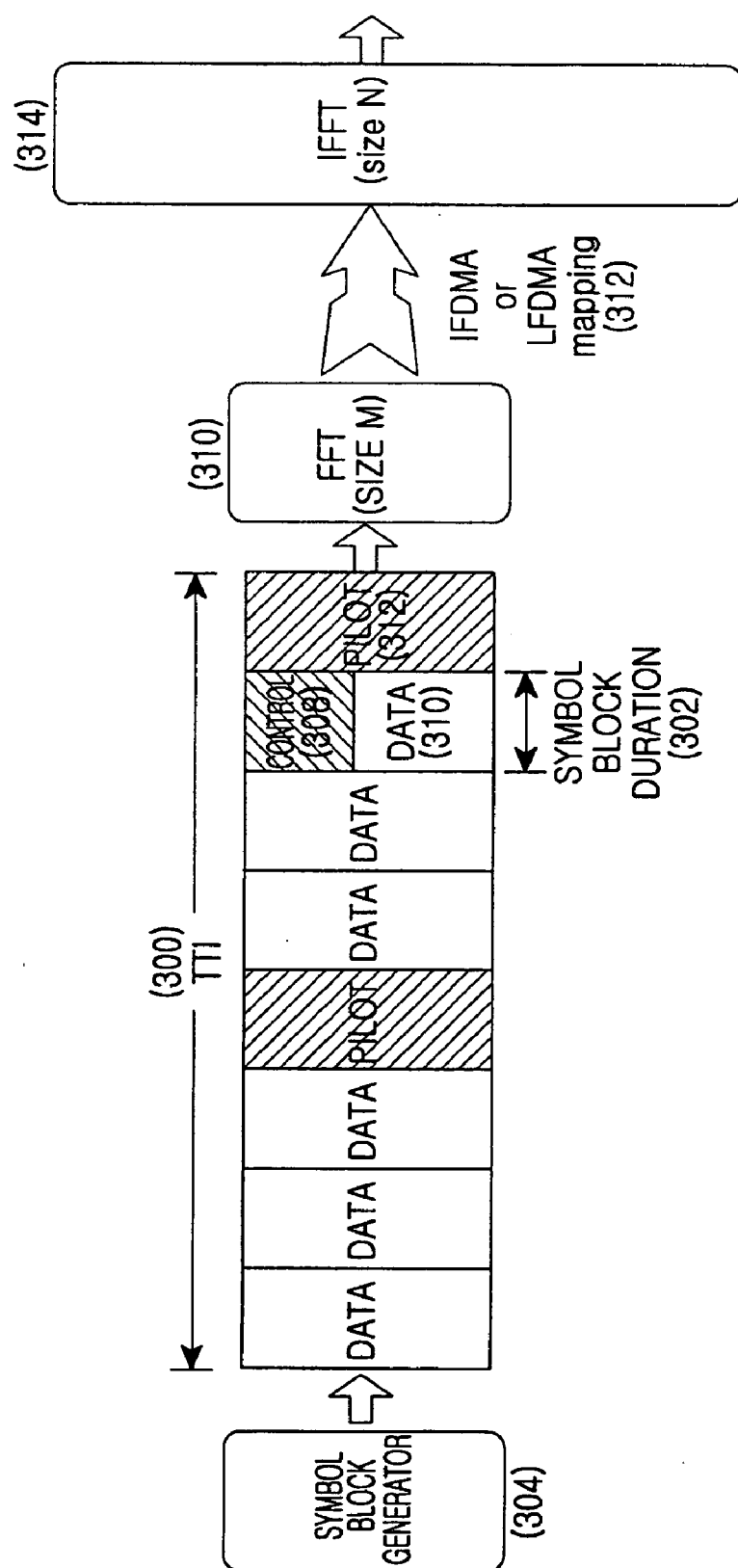


FIG.2
(CONVENTIONAL ART)



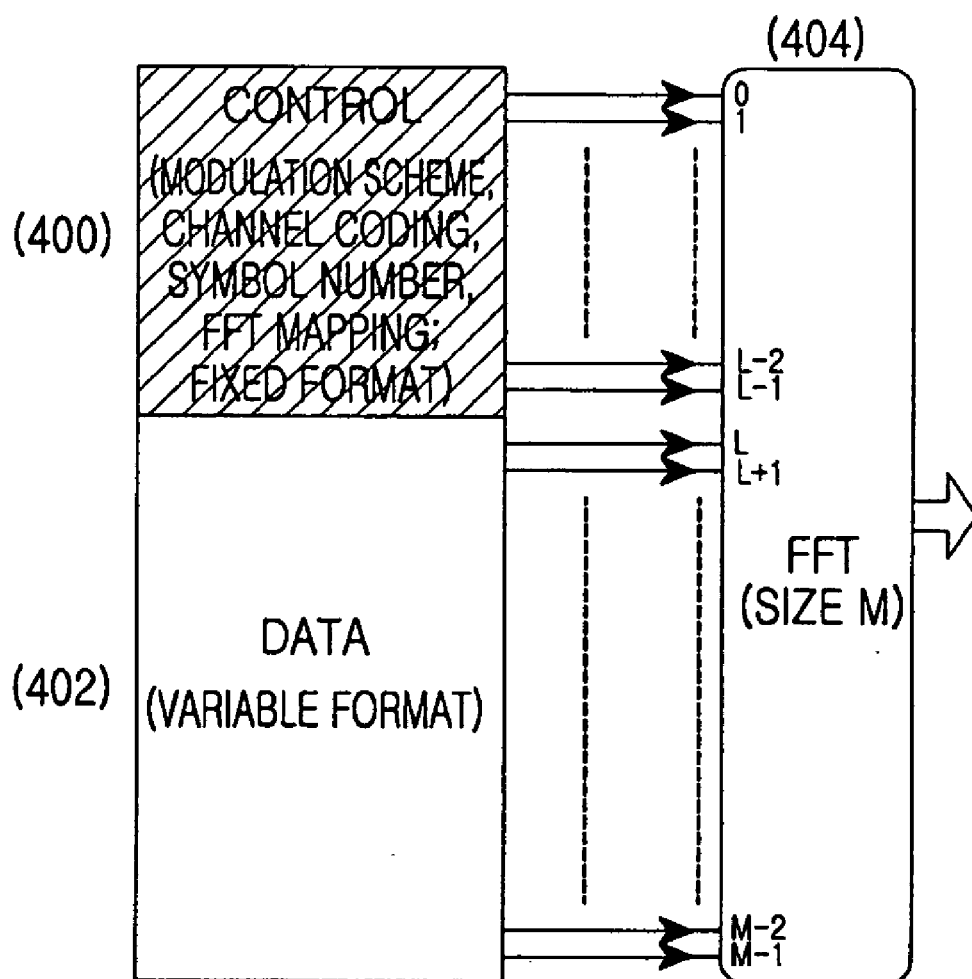


FIG.4

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