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(54) **FREQUENCY OVERLAY COMMUNICATION SYSTEM AND TRANSMISSION/RECEPTION METHOD THEREOF**

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See application file for complete search history.

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(57) **ABSTRACT**

Provided is a method and apparatus for transmitting/receiving data in a frequency overlay communication system. A transmitter generates a data stream for data transmission, and performs Inverse Fast Fourier Transform (IFFT) on the generated data stream according to a predetermined first frequency band before transmission. Upon receiving a particular signal, a receiver performs Fast Fourier Transform (FFT) on the received signal according to a predetermined second frequency band, and restores the received signal.

3 Claims, 12 Drawing Sheets

