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(54) **SYSTEM AND METHOD FOR MODULATION OF NON-DATA BEARING CARRIERS IN A MULTI-CARRIER MODULATION SYSTEM**

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See application file for complete search history.

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(57) **ABSTRACT**

For one aspect of the invention, a method is described for mitigating power spectral density irregularities in a multi-carrier modulation environment. The method involves identifying at least one carrier of a plurality of carriers that is in a non-data bearing state. Thereafter, that carrier is modulated with random data.

17 Claims, 6 Drawing Sheets

