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(54) **FREQUENCY OVERLAY COMMUNICATION SYSTEM AND CONTROL METHOD THEREOF**

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(52) **U.S. Cl.** **375/360; 370/329**

(58) **Field of Classification Search** **375/260, 375/267, 285, 295, 299; 370/329, 341, 350**

See application file for complete search history.

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(57) **ABSTRACT**

A frequency overlay communication system that includes a first communication system for performing communication using a first frequency band being a preset bandwidth; and a second communication system for performing communication using a second frequency band being a second preset bandwidth, wherein the second frequency band includes the first frequency band.

21 Claims, 11 Drawing Sheets

